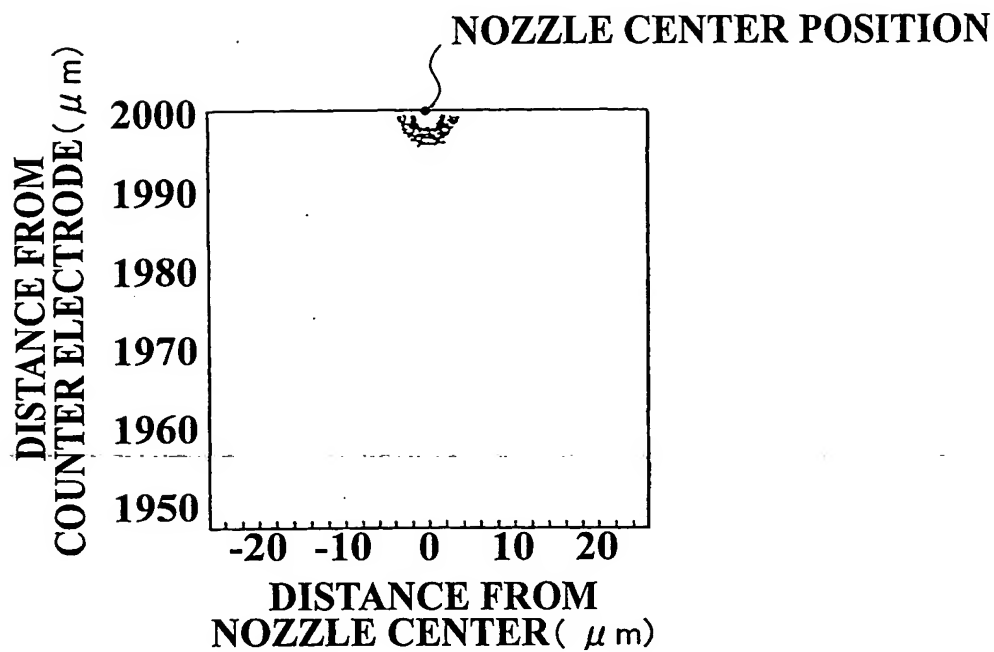
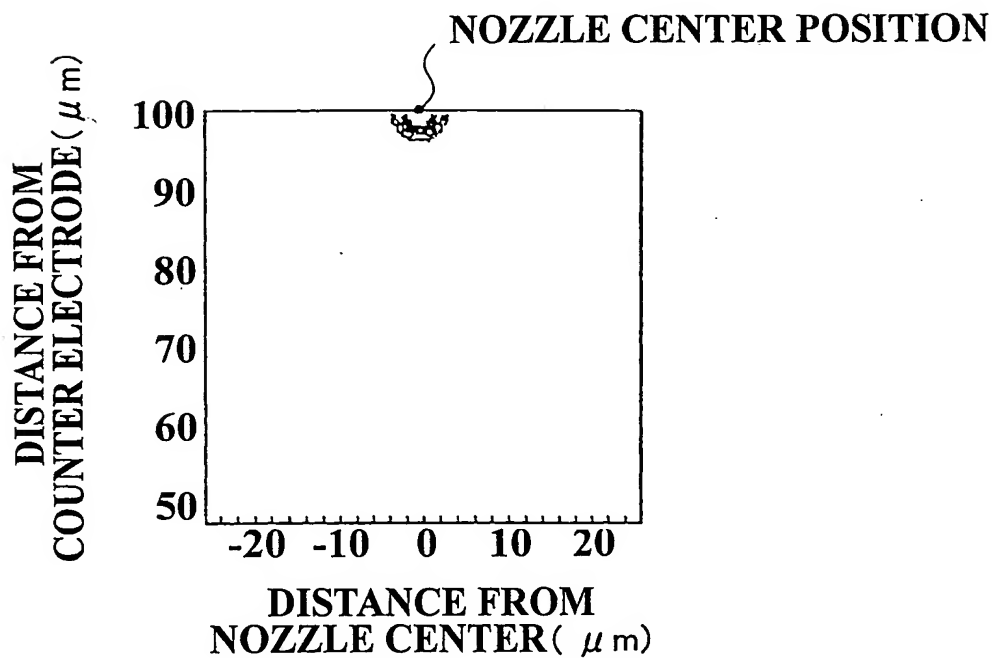


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FIG 1A**FIG 1B**

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FIG 2A

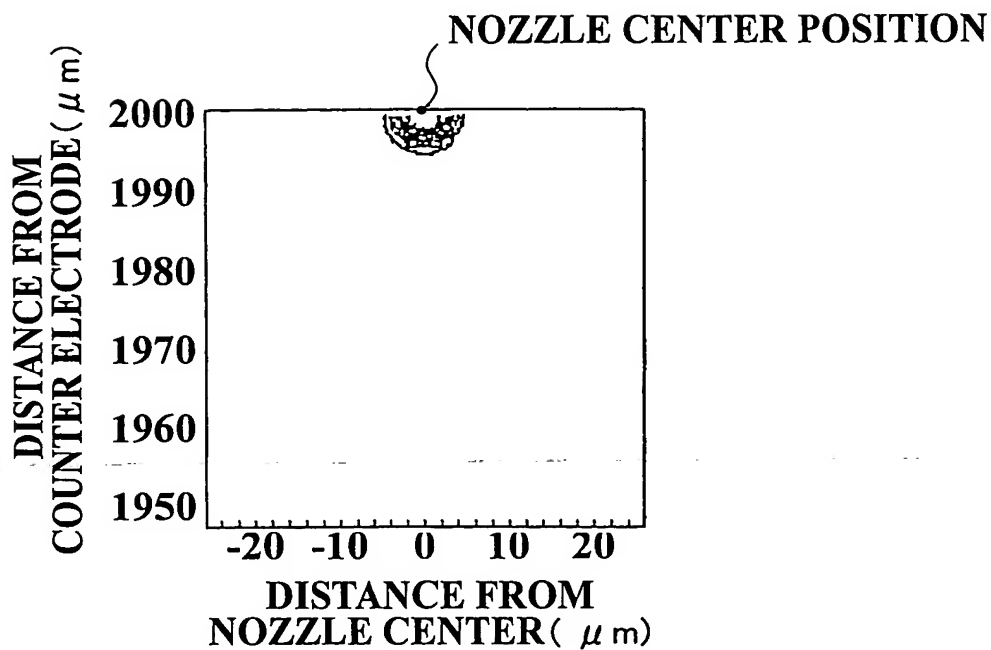
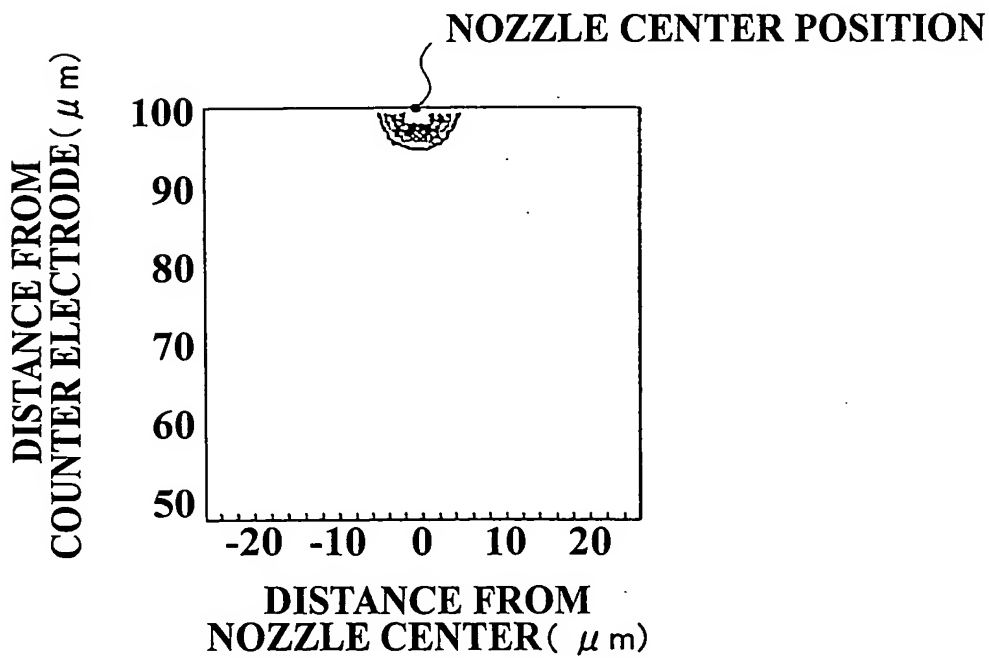
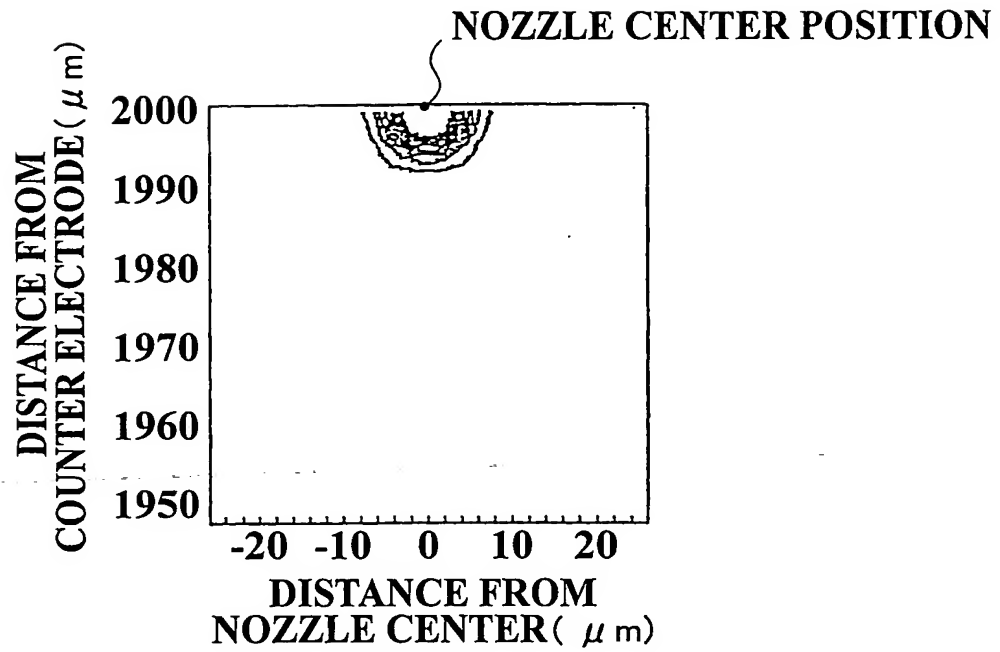
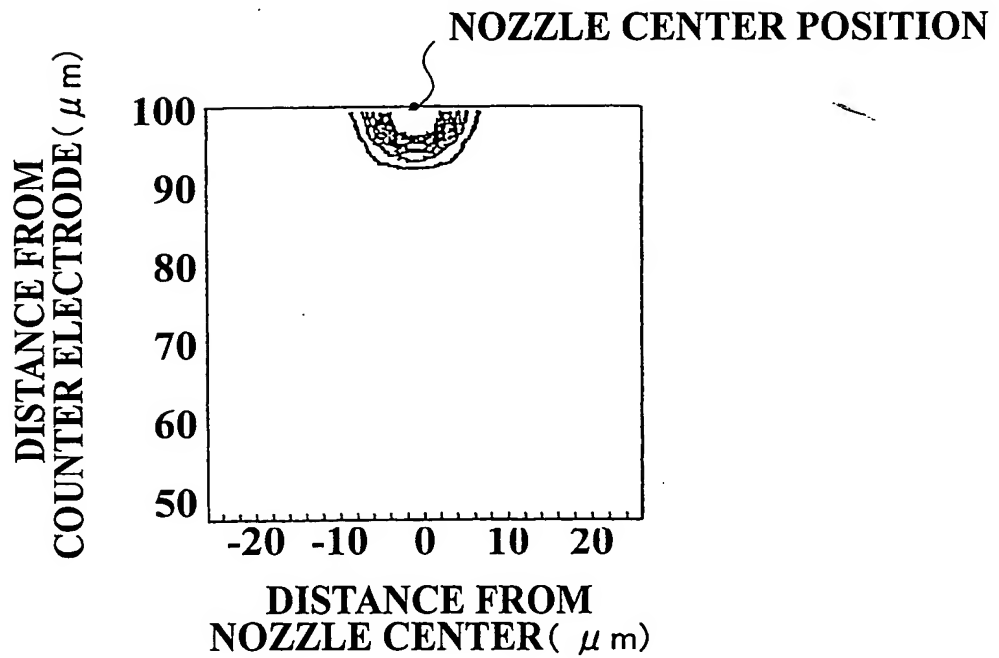


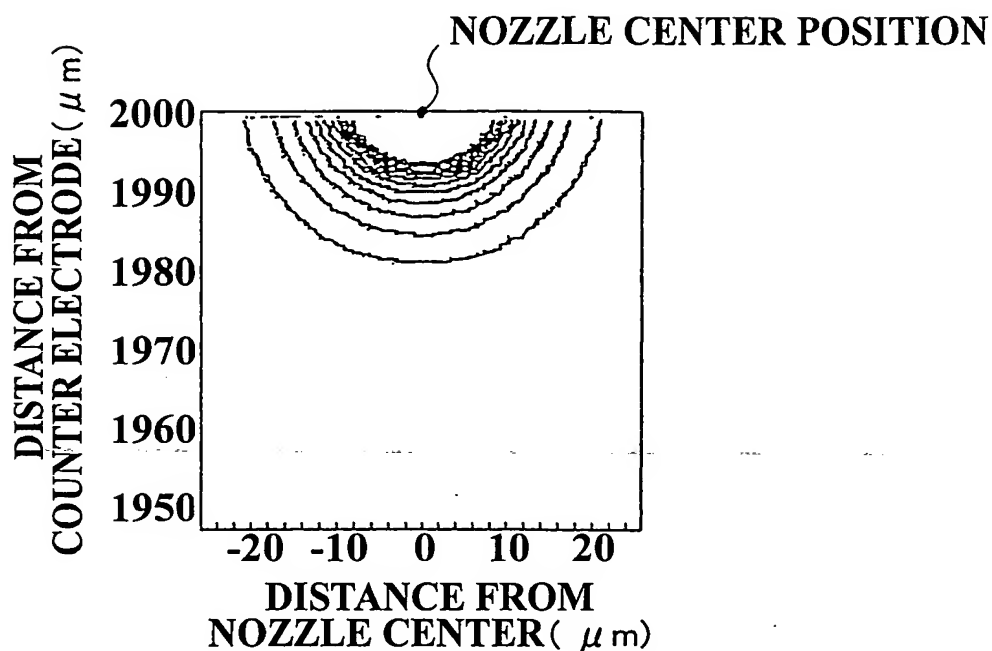
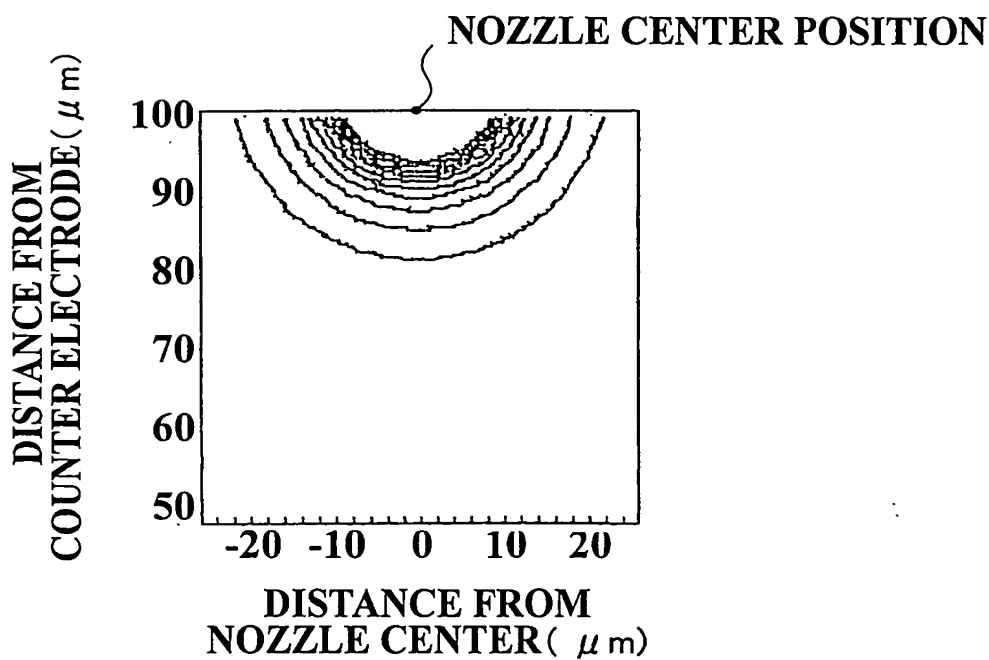
FIG 2B



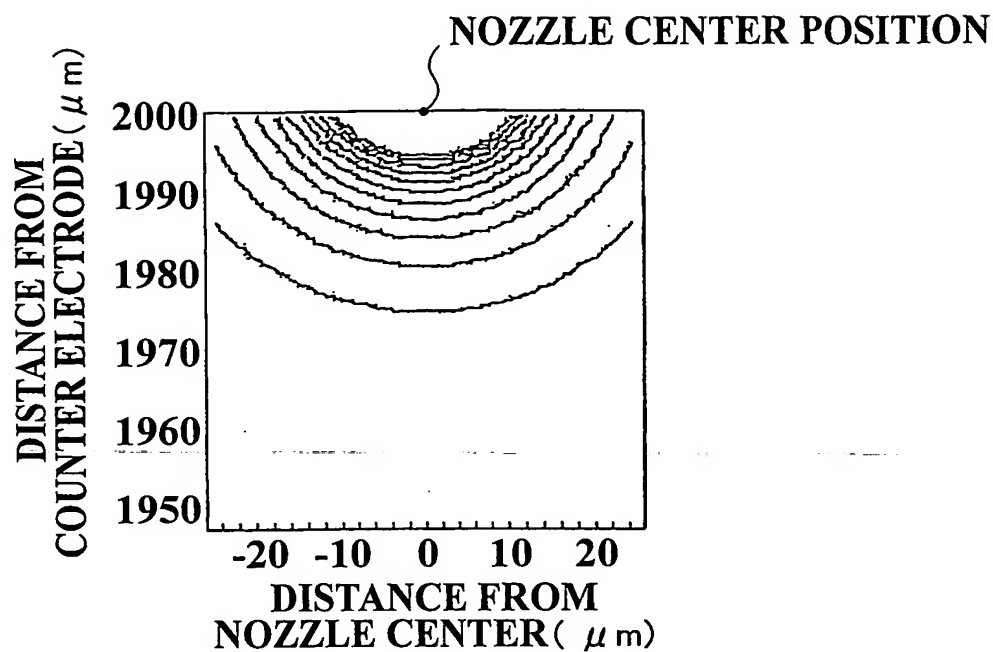
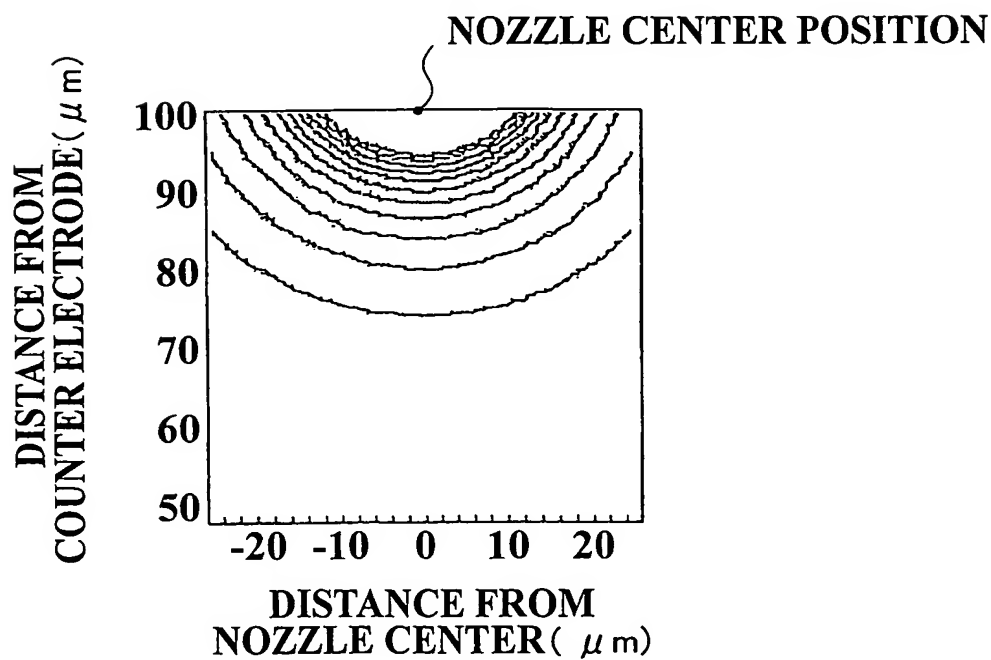
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FIG. 3A**FIG. 3B**

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FIG 4A**FIG 4B**

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FIG. 5A**FIG. 5B**

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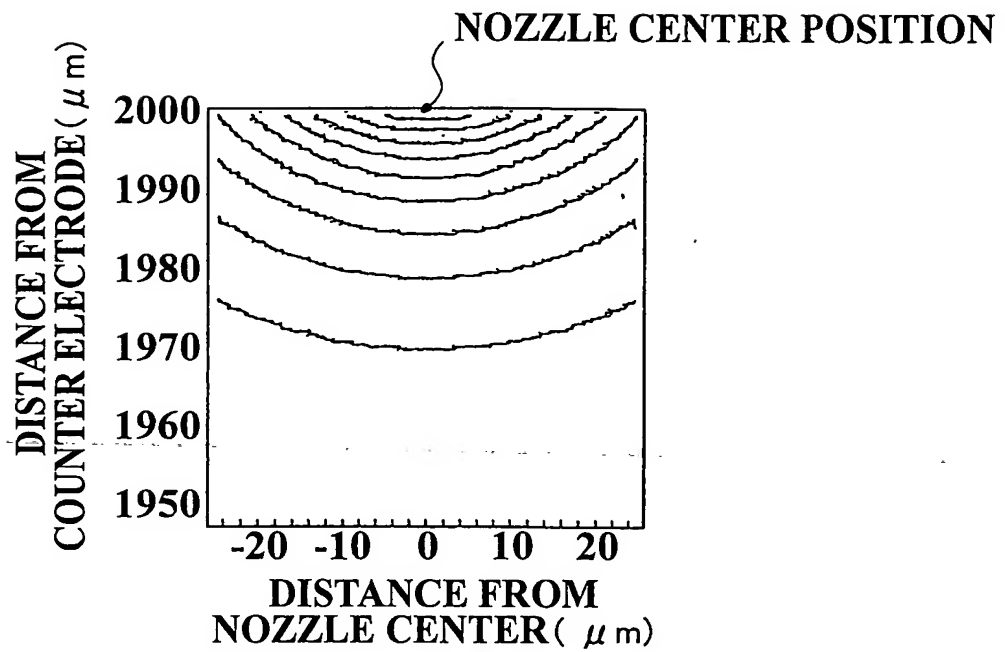
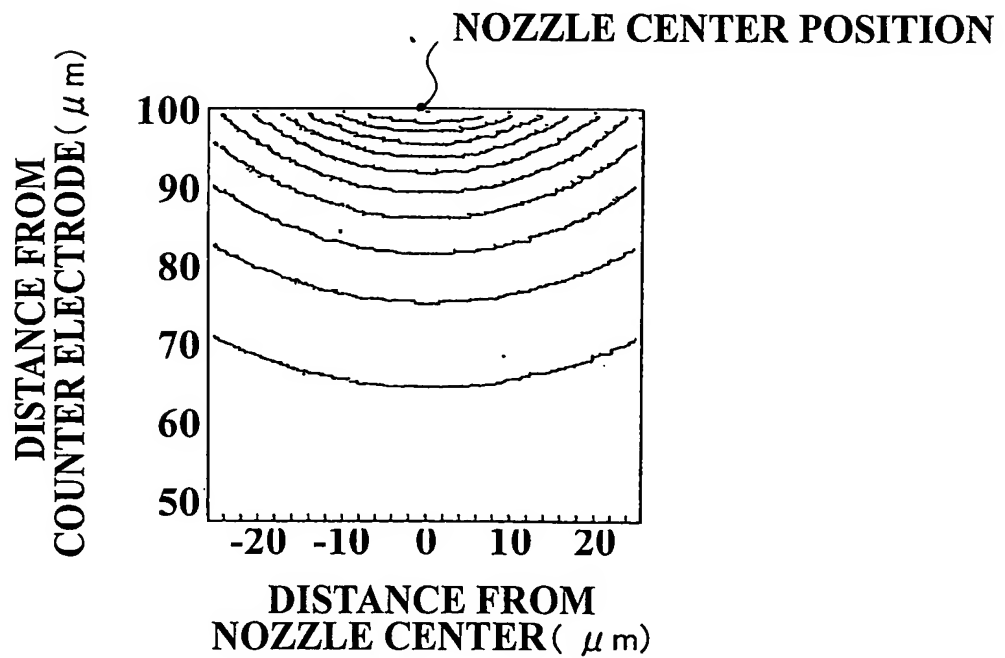
FIG 6A**FIG 6B**

FIG.7

NOZZLE DIAMETER (μ m)	MAXIMUM ELECTRIC FIELD INTENSITY(V/m)		COEFFICIENT OF FLUCTUATION (%)
	GAP100 (μ m)	GAP2000 (μ m)	
0.2	2.001×10^9	2.00005×10^9	0.05
0.4	1.001×10^9	1.00005×10^9	0.09
1	0.401002×10^9	0.40005×10^9	0.24
8	0.0510196×10^9	0.05005×10^9	1.94
20	0.0210476×10^9	0.0200501×10^9	4.98
50	0.00911111×10^9	0.00805×10^9	13.18

FIG.8

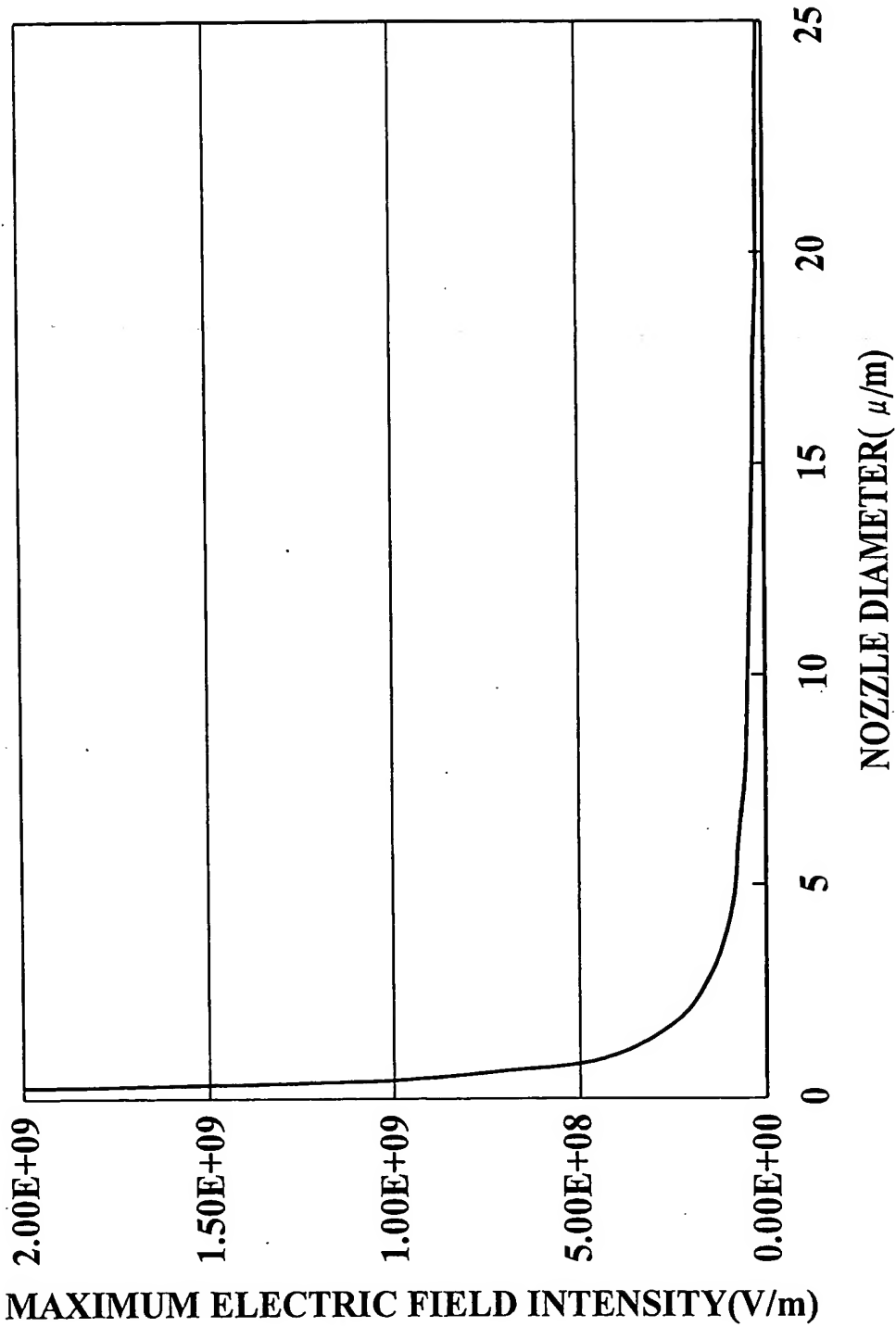


FIG.9

JETTING START VOLTAGE / RAYLEIGH LIMIT VOLTAGE

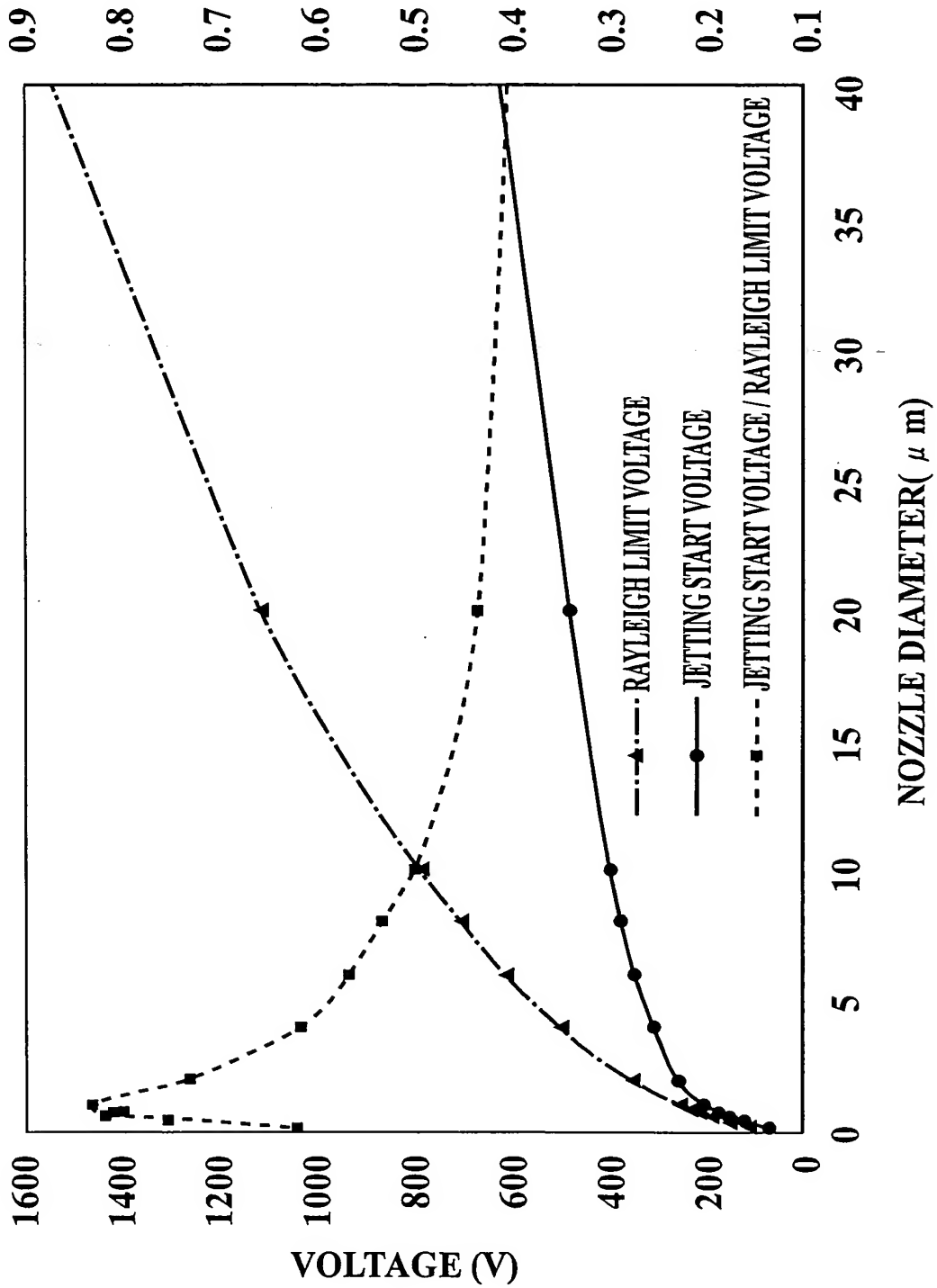
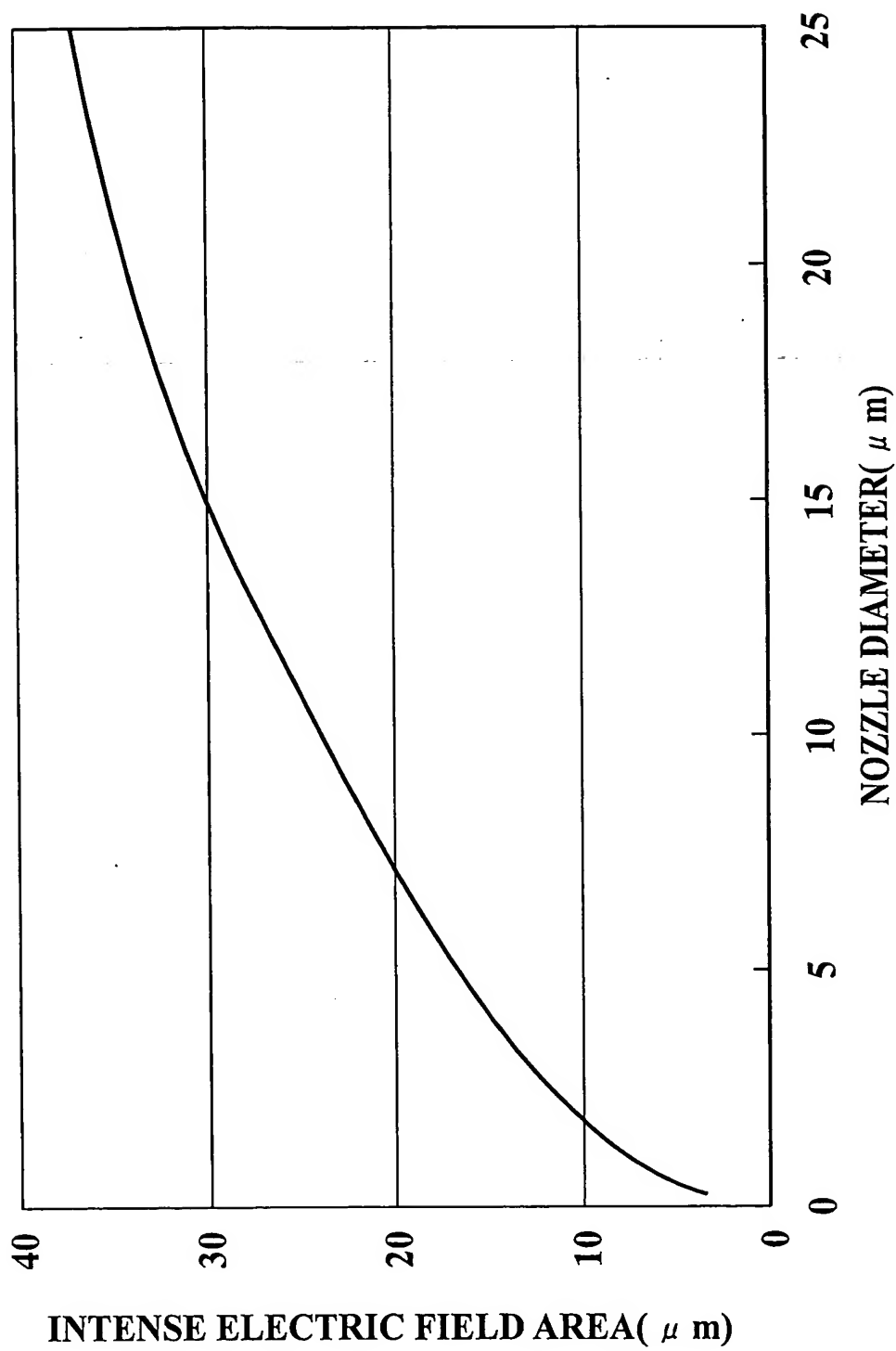


FIG.10

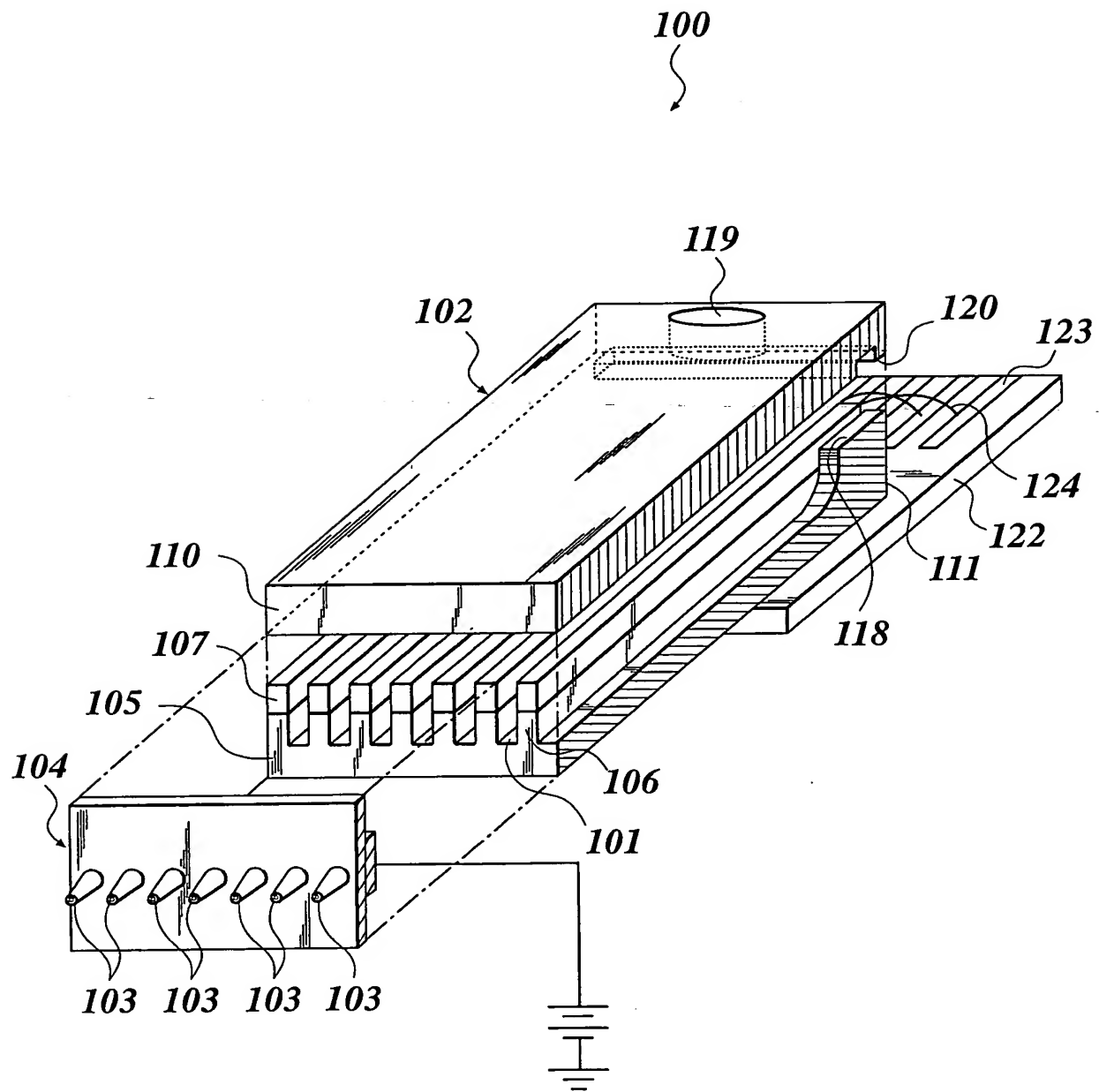
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FIG. 11

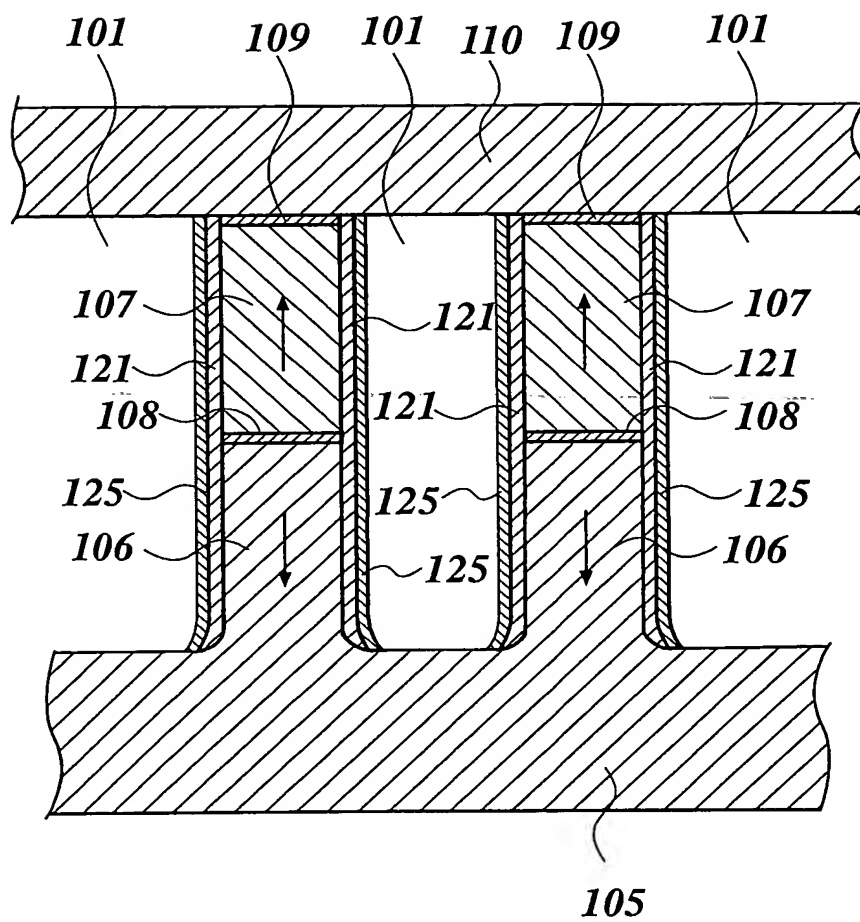
FIG.12

FIG.13

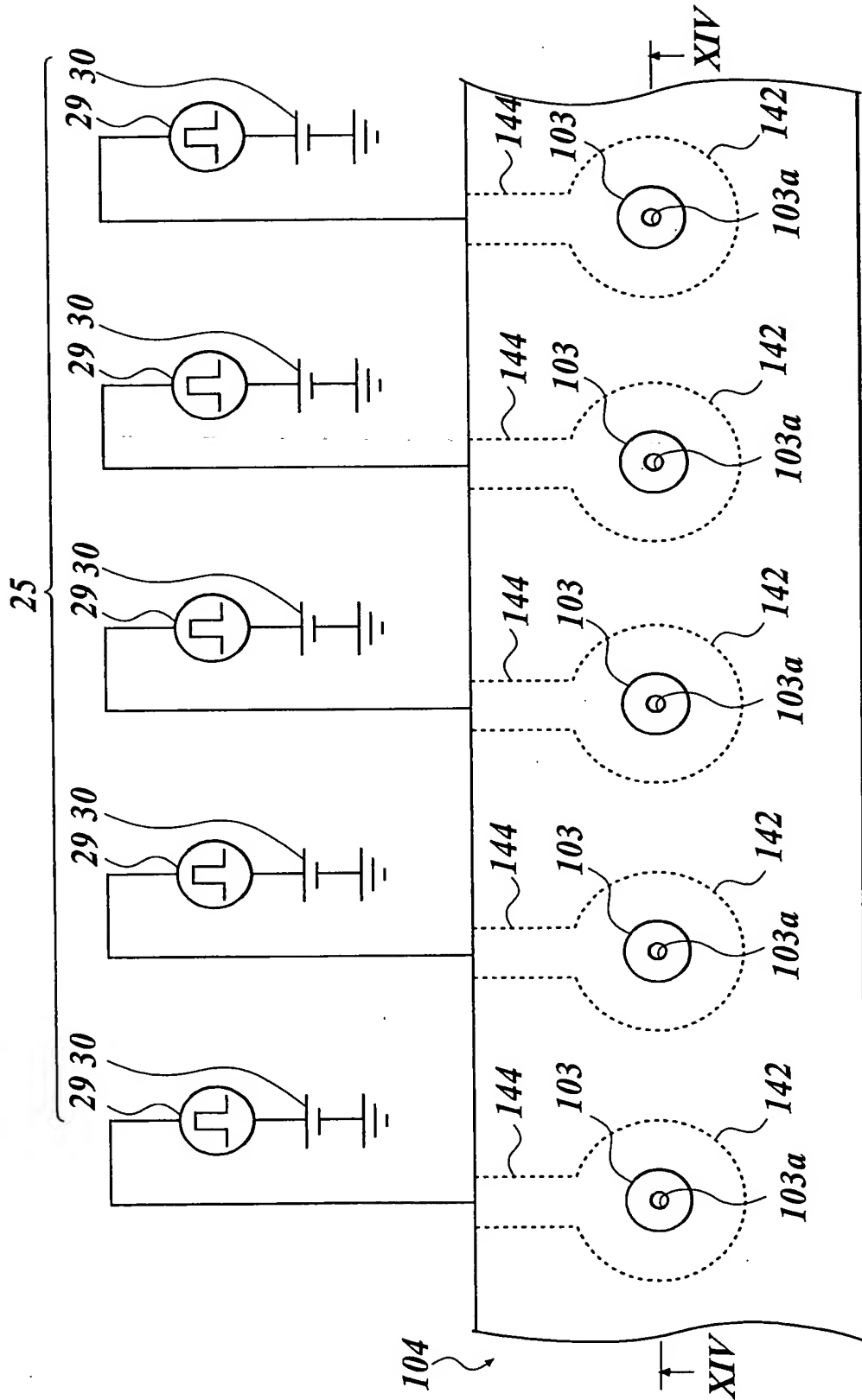
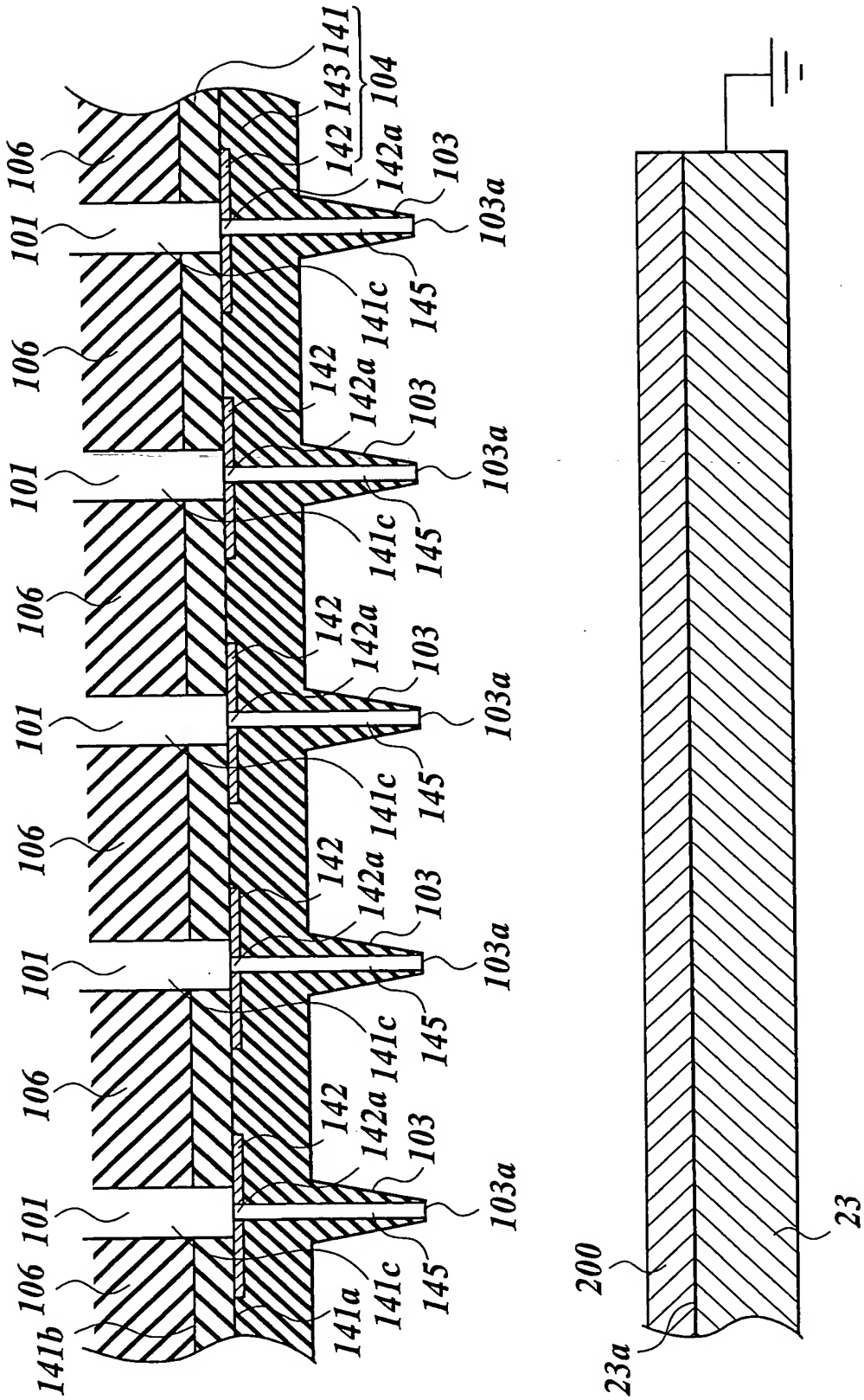


FIG.14



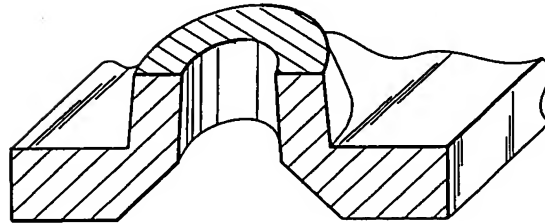


FIG.16

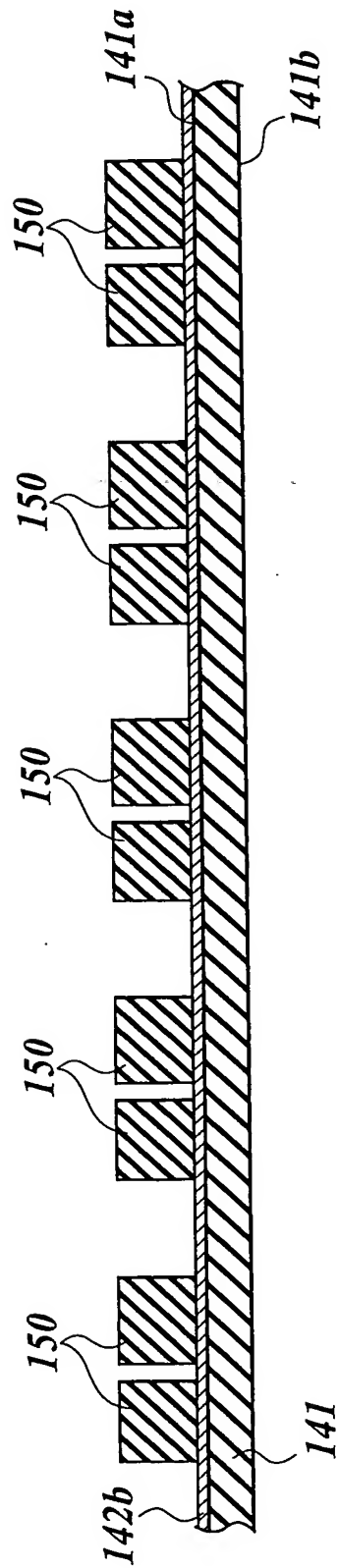


FIG.17A

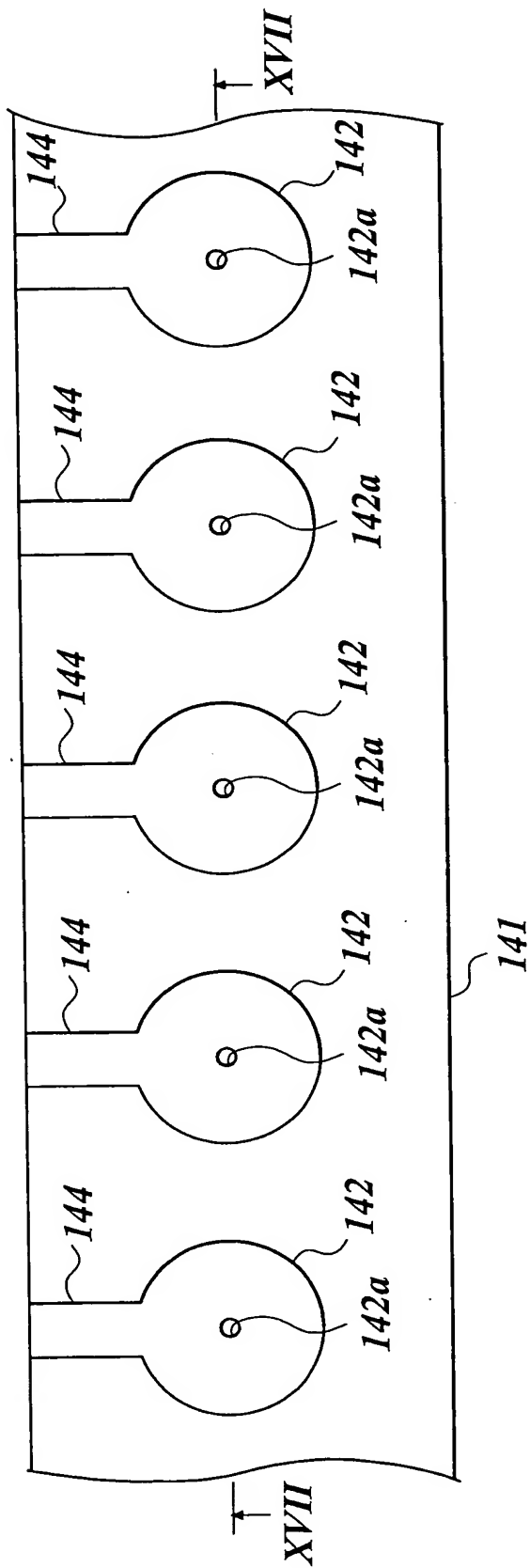


FIG.17B

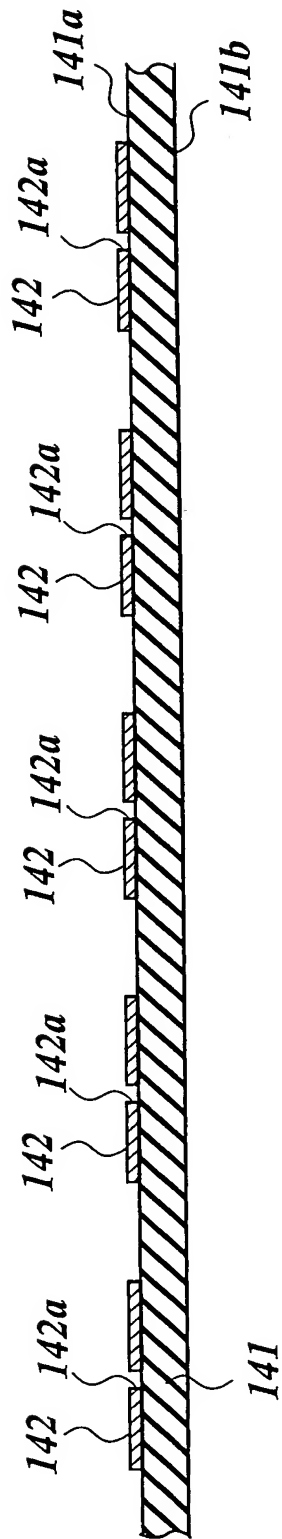


FIG. 18

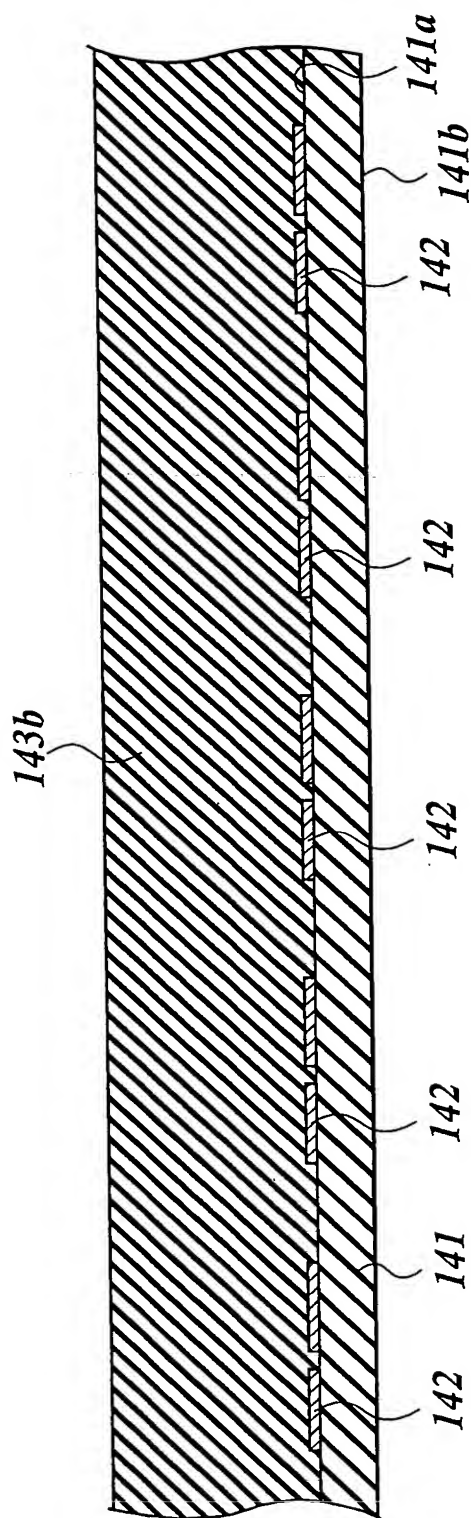


FIG.19

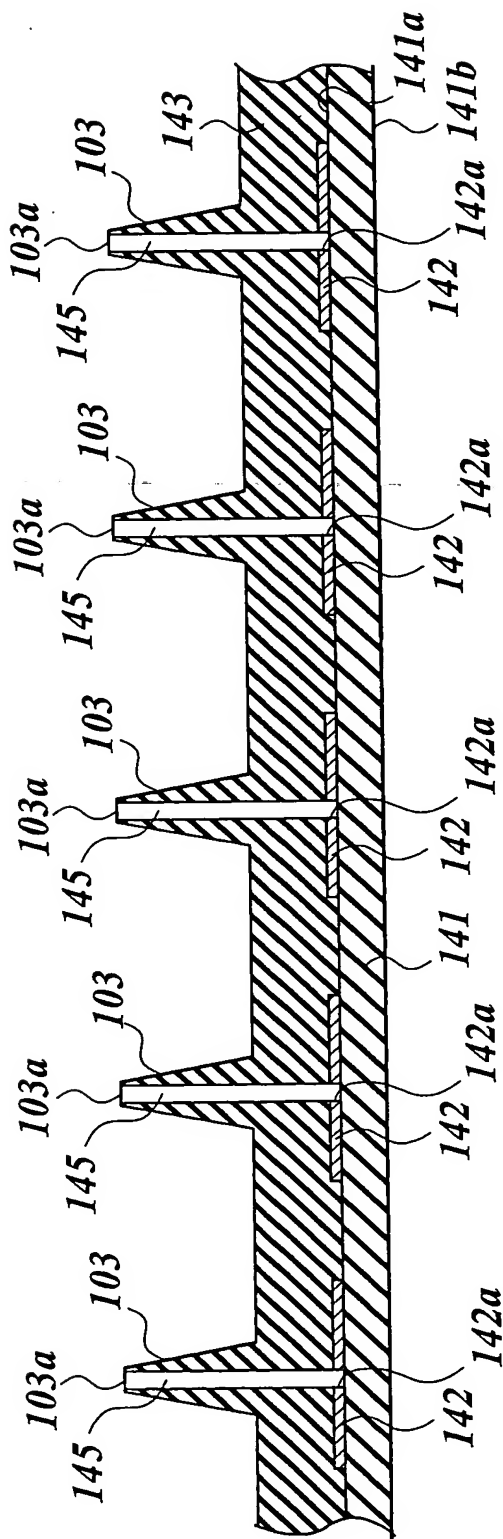


FIG. 20

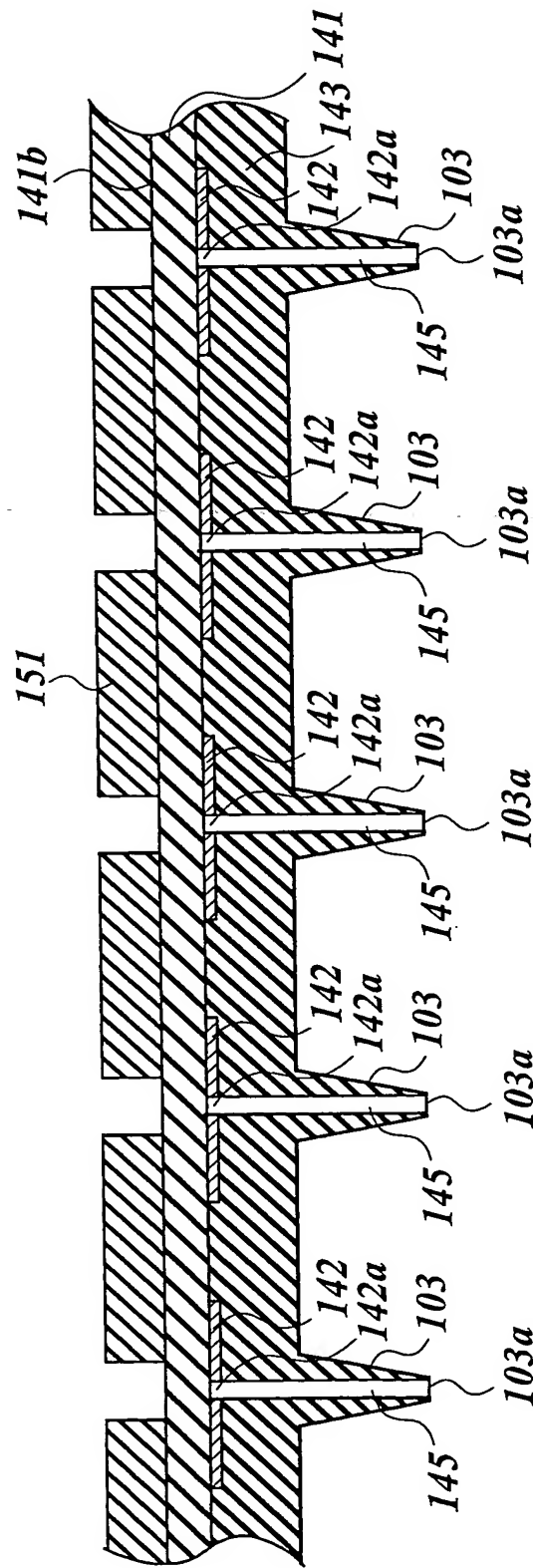


FIG.21

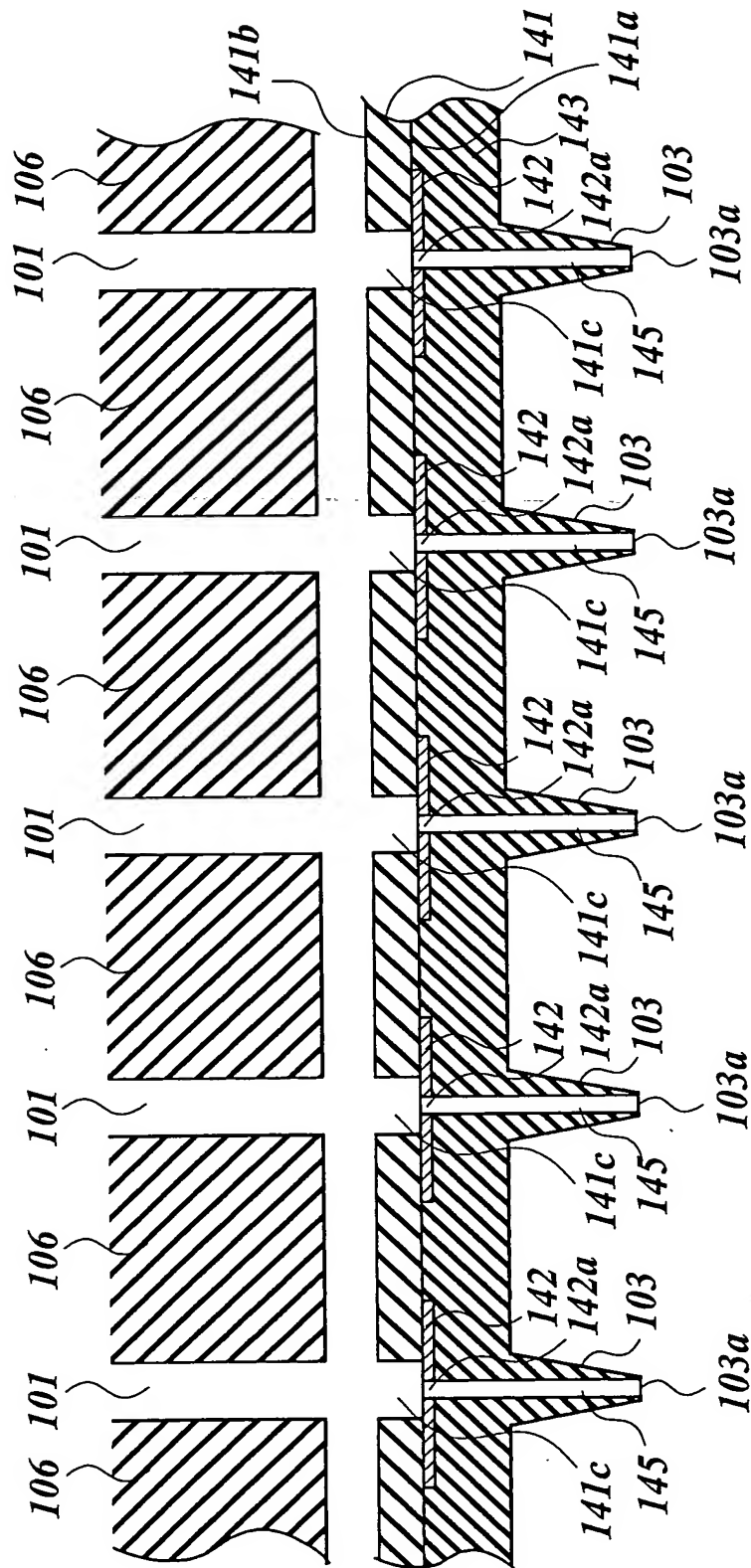


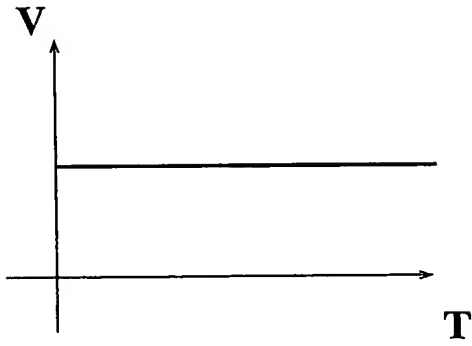
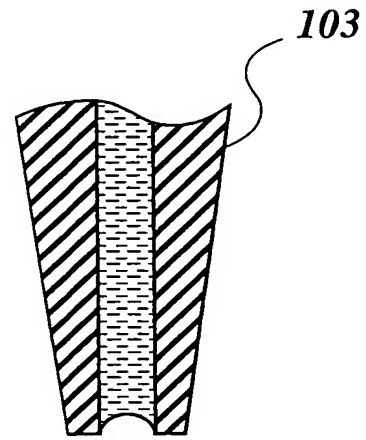
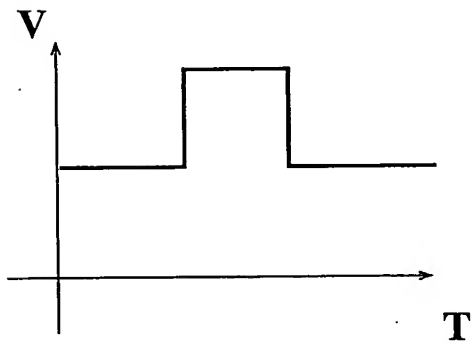
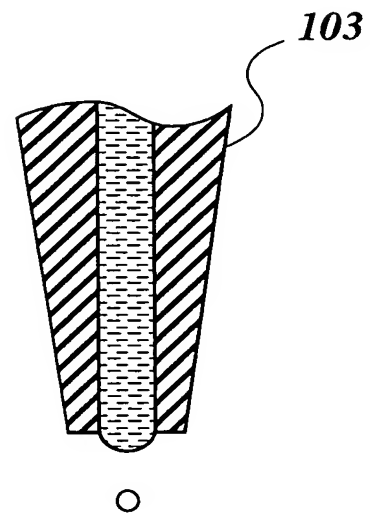
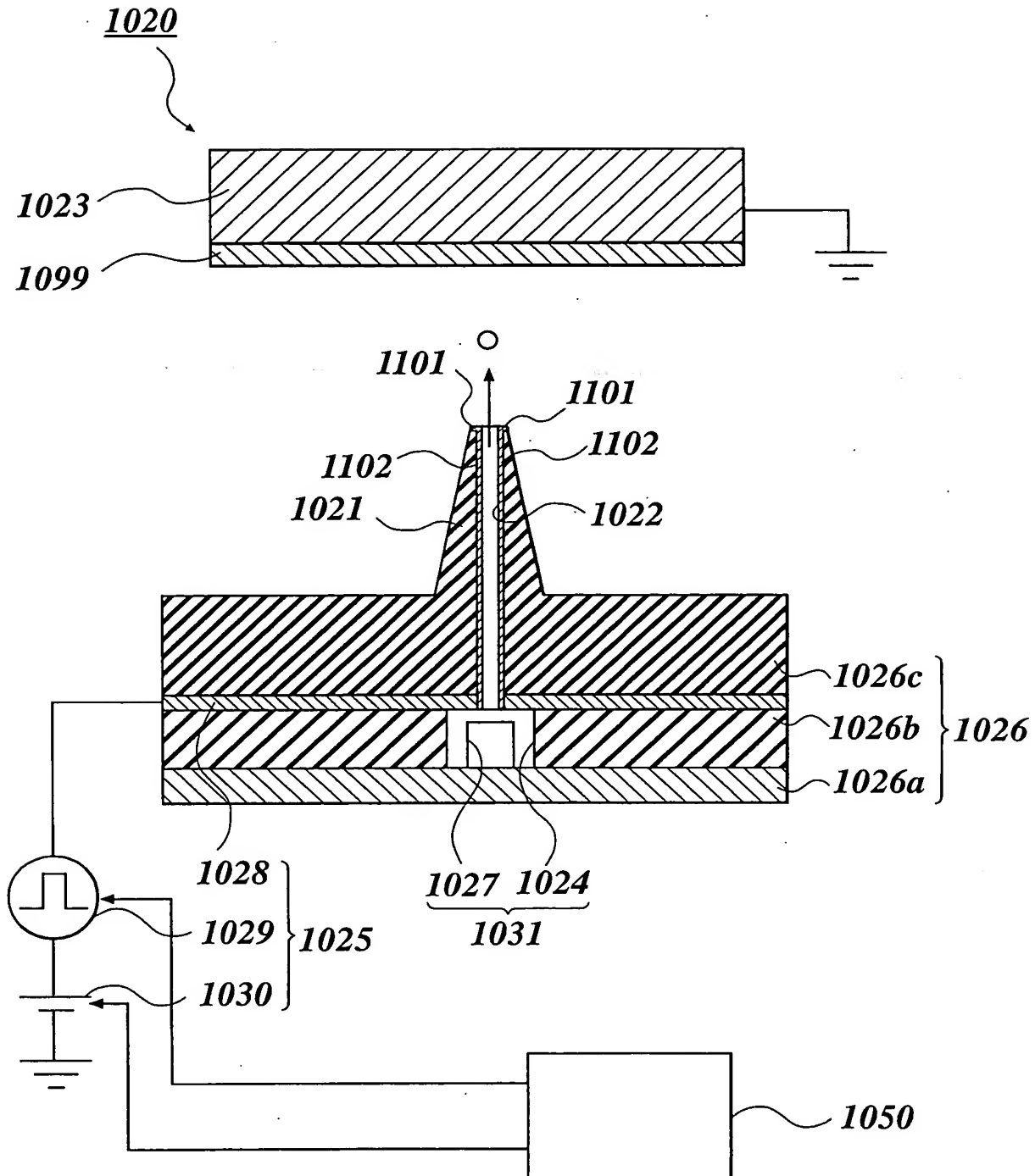
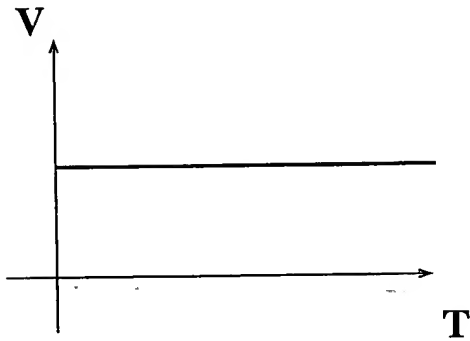
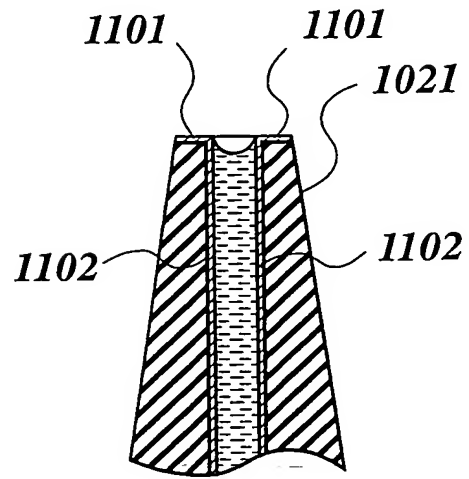
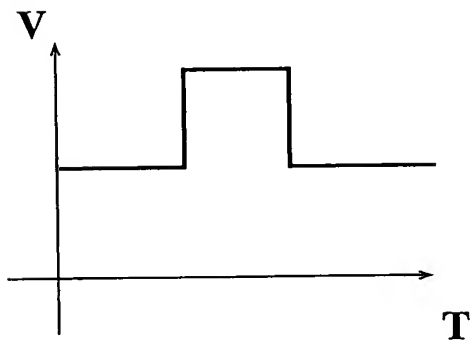
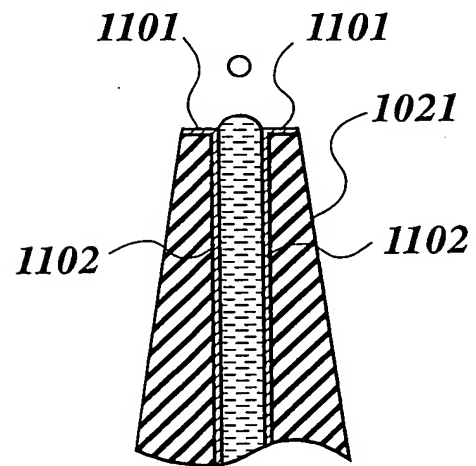
FIG.22A**FIG.22B****FIG.22C****FIG.22D**

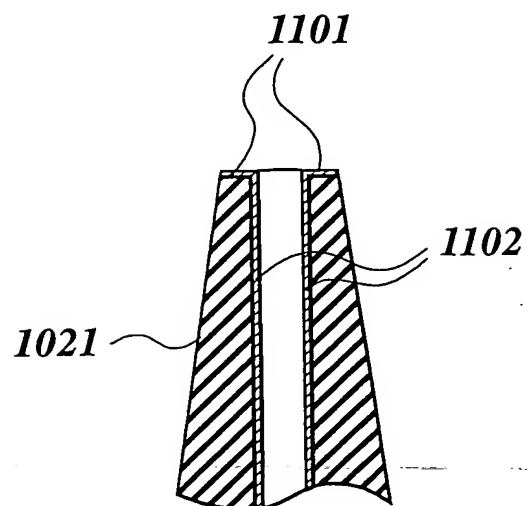
FIG. 23

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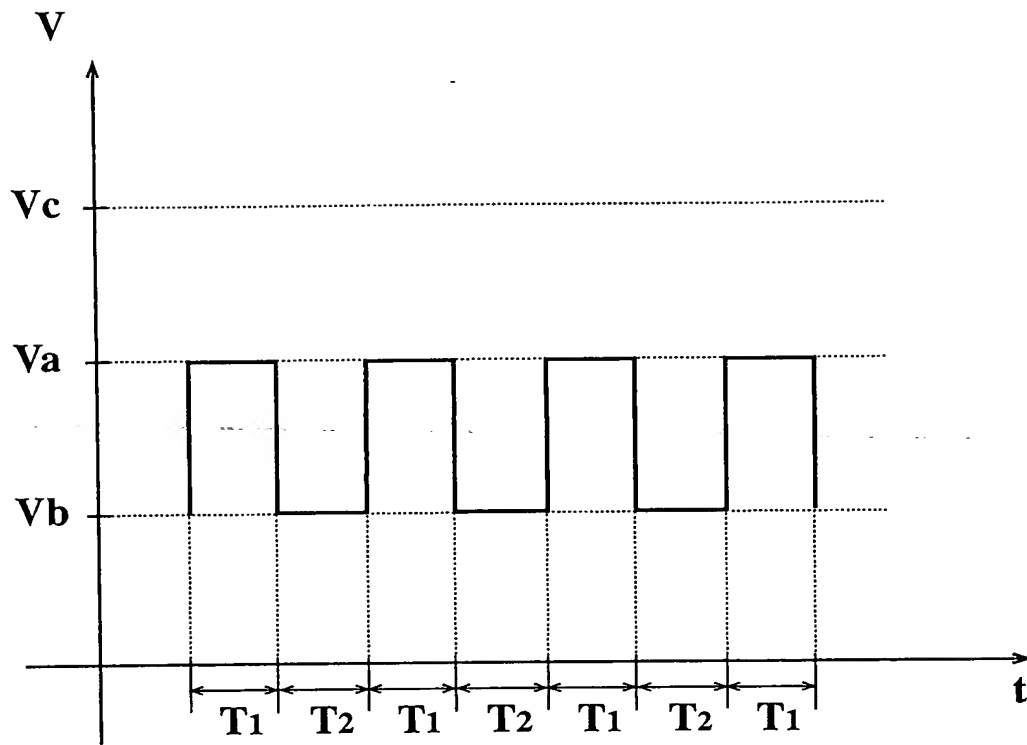
FIG.24A**FIG.24B****FIG.24C****FIG.24D**

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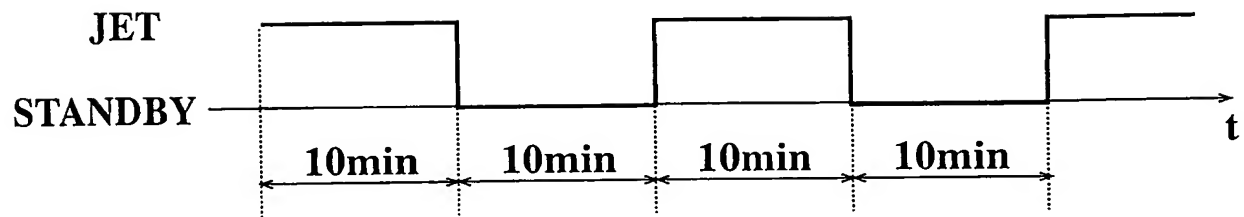
FIG.25



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FIG.26

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FIG.27

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FIG.28

No.	WATER REPELLENT COATING	VOLTAGE APPLYING PATTERN AT STANDBY FOR JETTING	RESPONSIVENESS	CLOGGING
1	UNAVAILABLE	UNAVAILABLE	—	NG
2	UNAVAILABLE	AVAILABLE	3	OK
3	AREA 1 AVAILABLE	UNAVAILABLE	1	OK
4	AREA 1 AVAILABLE	AVAILABLE	4	OK
5	AREA 2 AVAILABLE	UNAVAILABLE	2	OK
6	AREA 2 AVAILABLE	AVAILABLE	5	OK

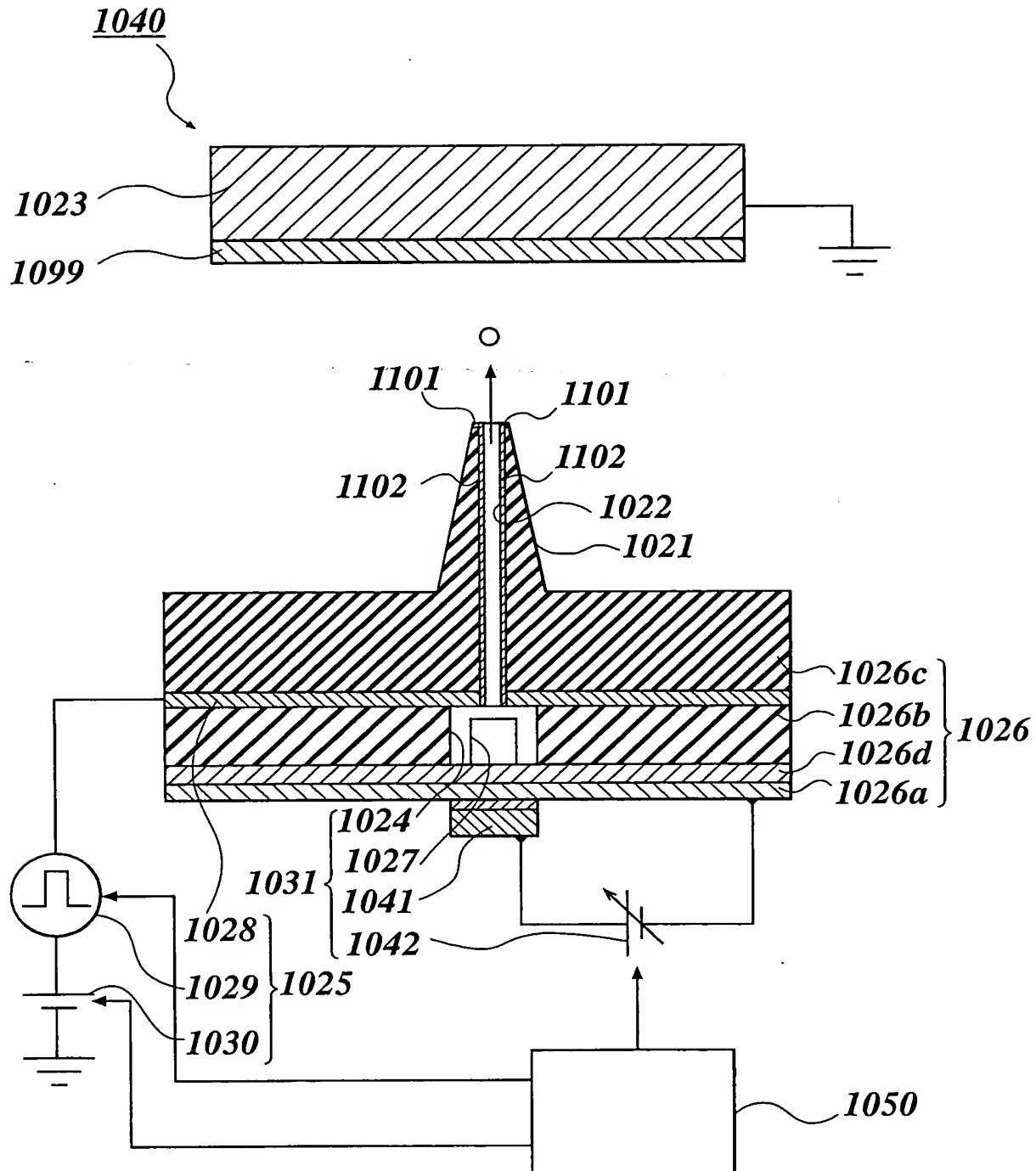


FIG.30C

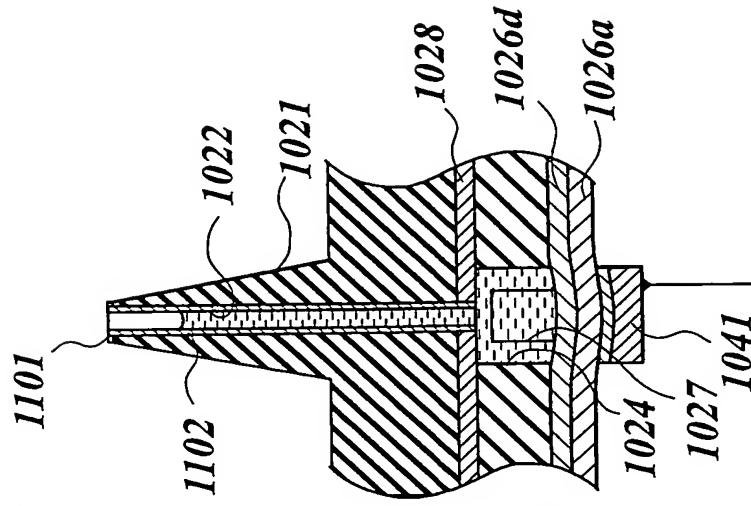


FIG.30B

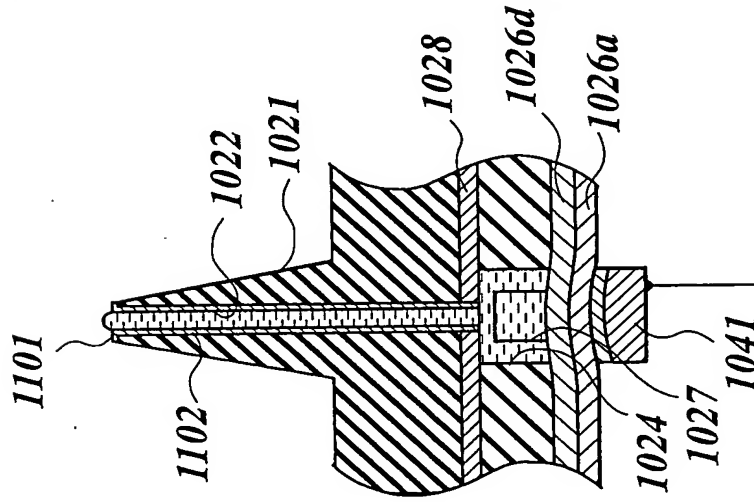


FIG.30A

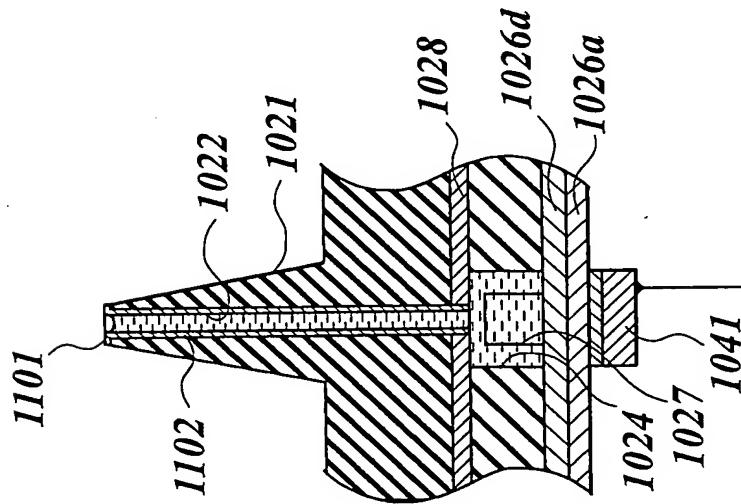


FIG. 32A

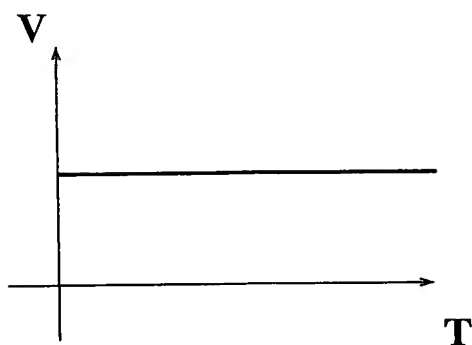


FIG.32B

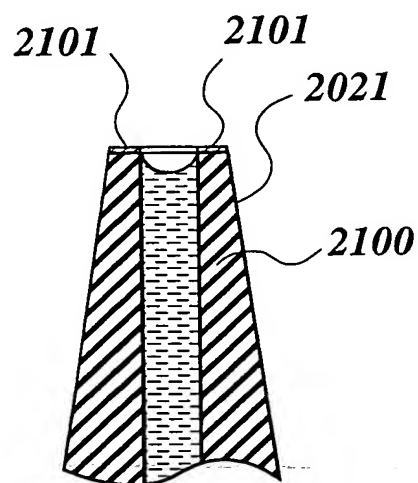


FIG.32C

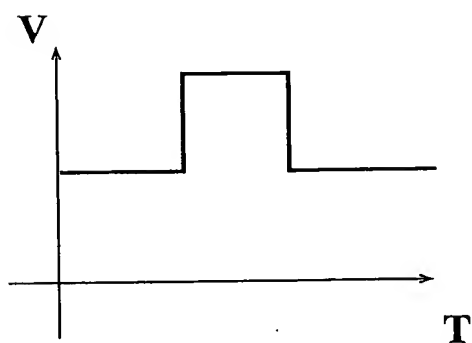
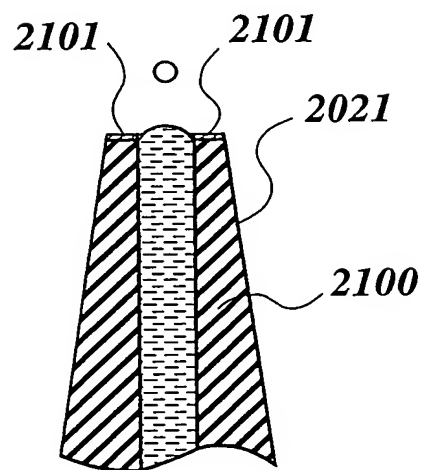


FIG. 32D



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FIG.33A

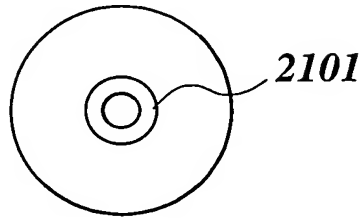
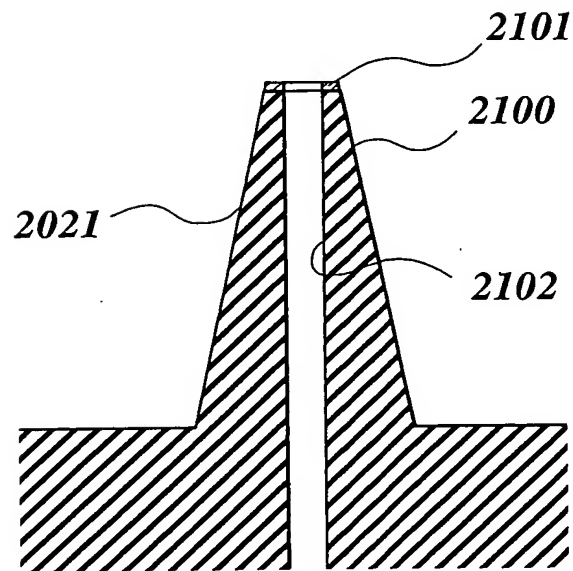
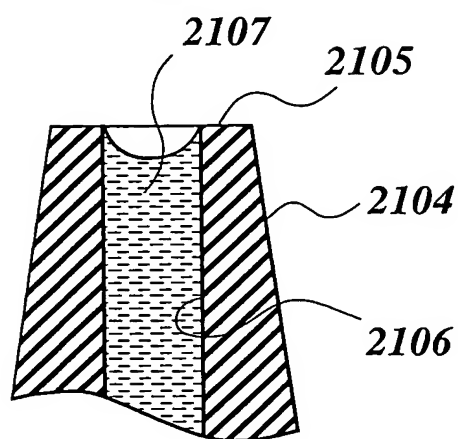
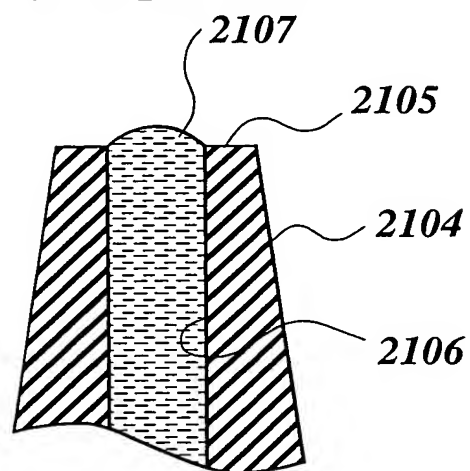
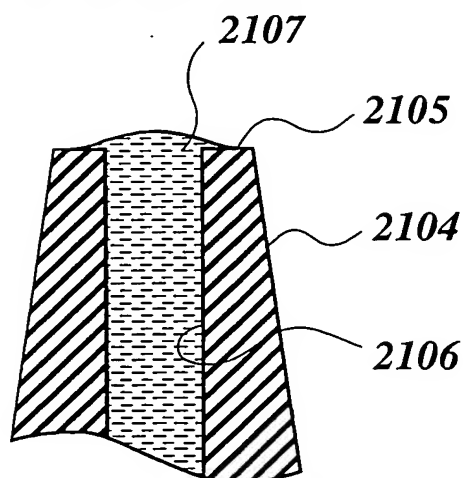


FIG.33B



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FIG.34A**FIG.34B****FIG.34C**

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FIG.35A

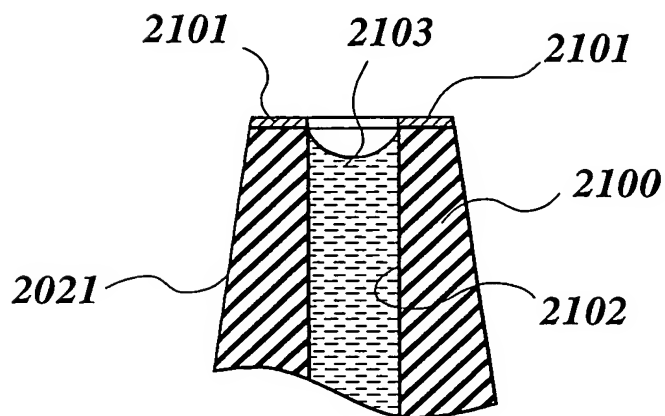


FIG.35B

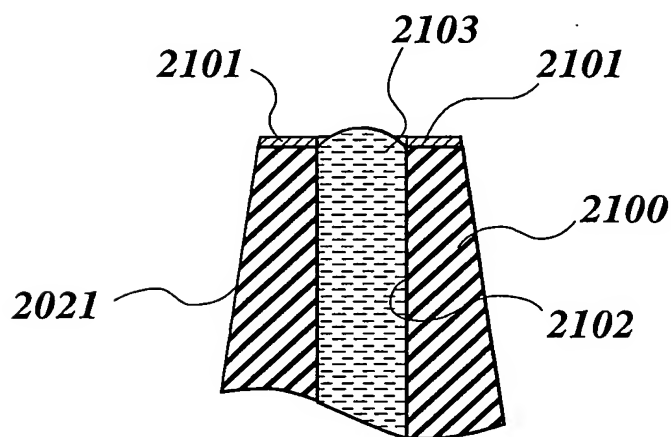
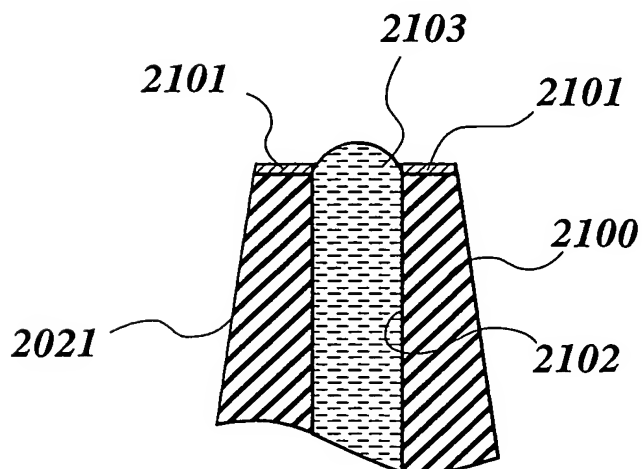


FIG.35C



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FIG.36A

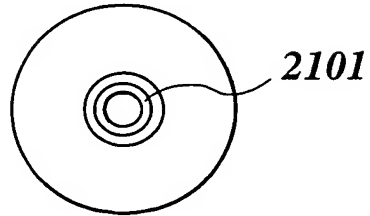
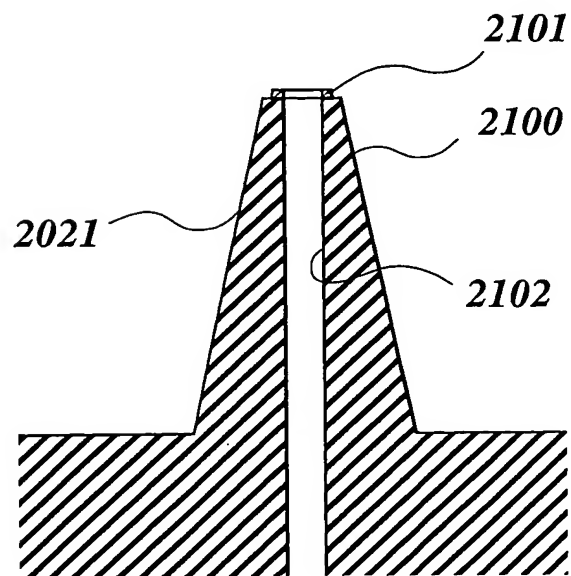


FIG.36 B



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FIG.37

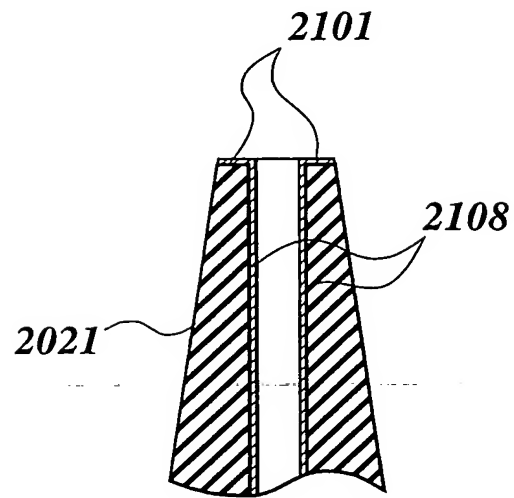
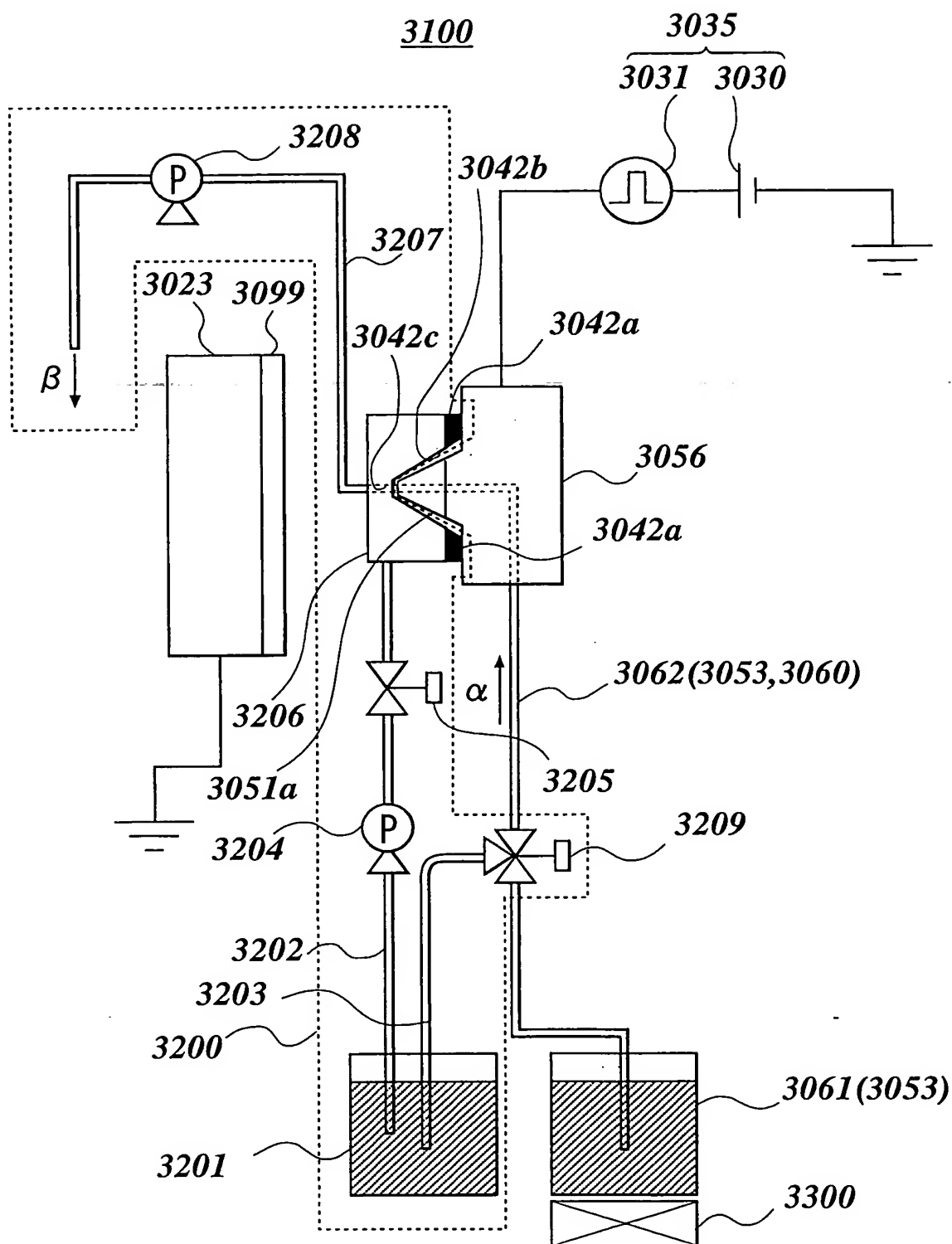


FIG.38

	CONTACT ANGLE BETWEEN PERIPHERAL MATERIAL OF NOZZLE JET OPENING AND LIQUID SOLUTION θ (°)	WATER REPELLENT COATING POSITION	MINIMUM JETTING VOLTAGE (V)	RESPONSIVENESS
1	0	UNAVAILABLE	300	1
2	30	AREA 1	300	1
3	45	AREA 1	280	2
4	90	AREA 1	260	3
5	130	AREA 1	250	4
6	30	AREA 2	300	1
7	45	AREA 2	270	2
8	90	AREA 2	250	4
9	130	AREA 2	240	4

FIG.39



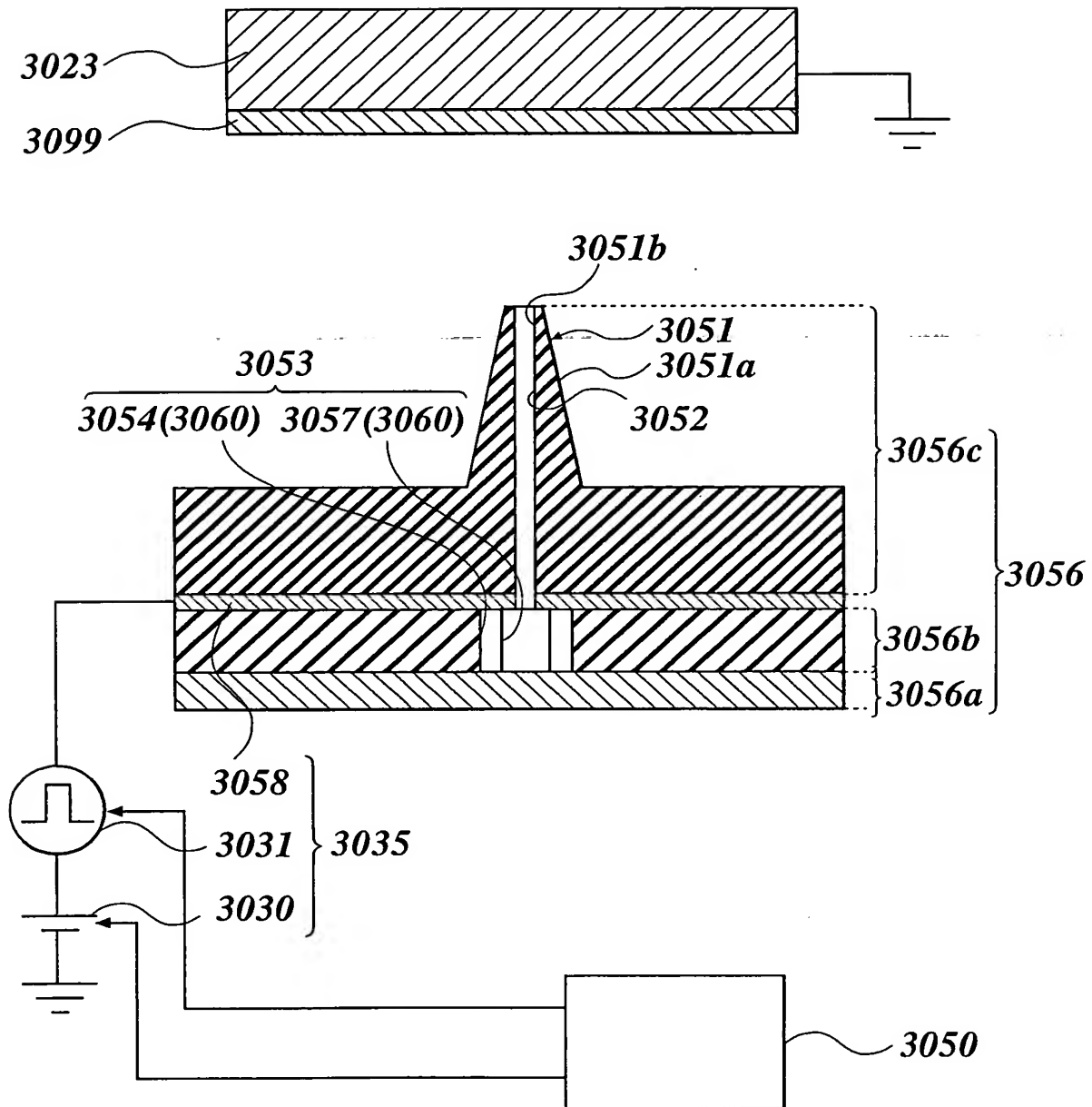


FIG.41A

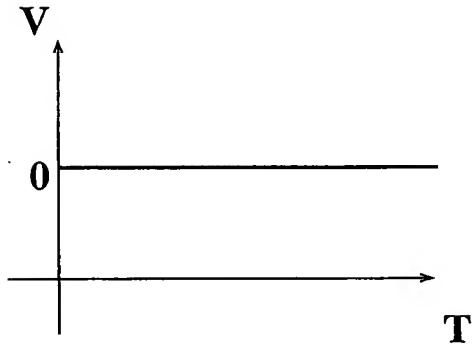


FIG.41B

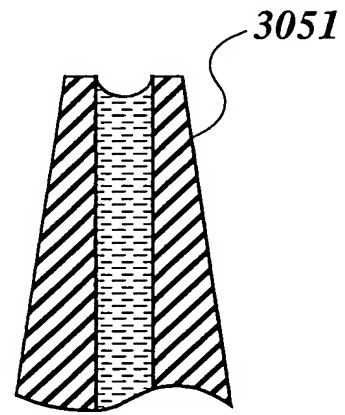


FIG.41C

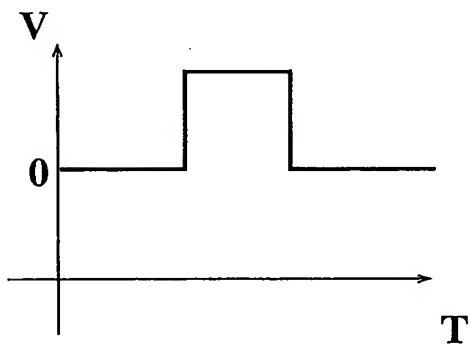


FIG.41D

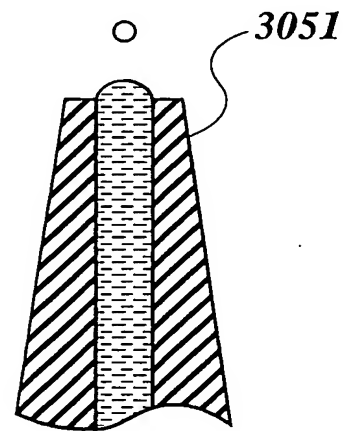


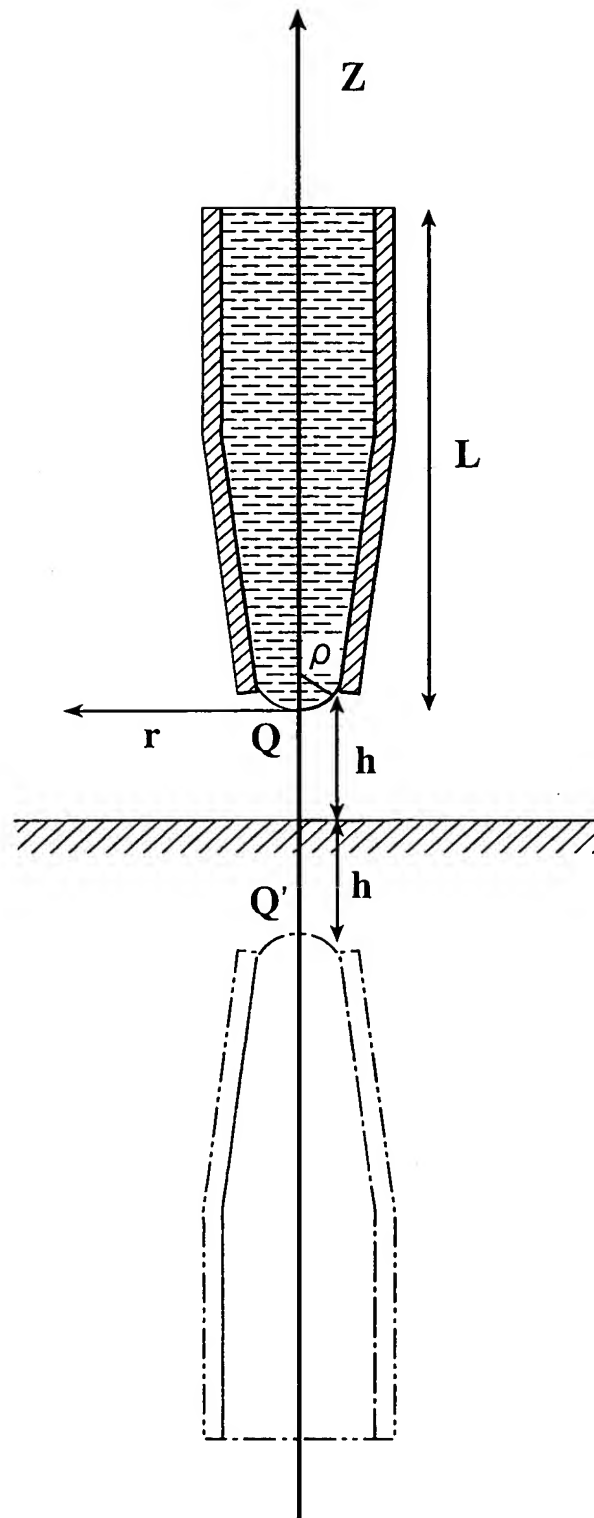
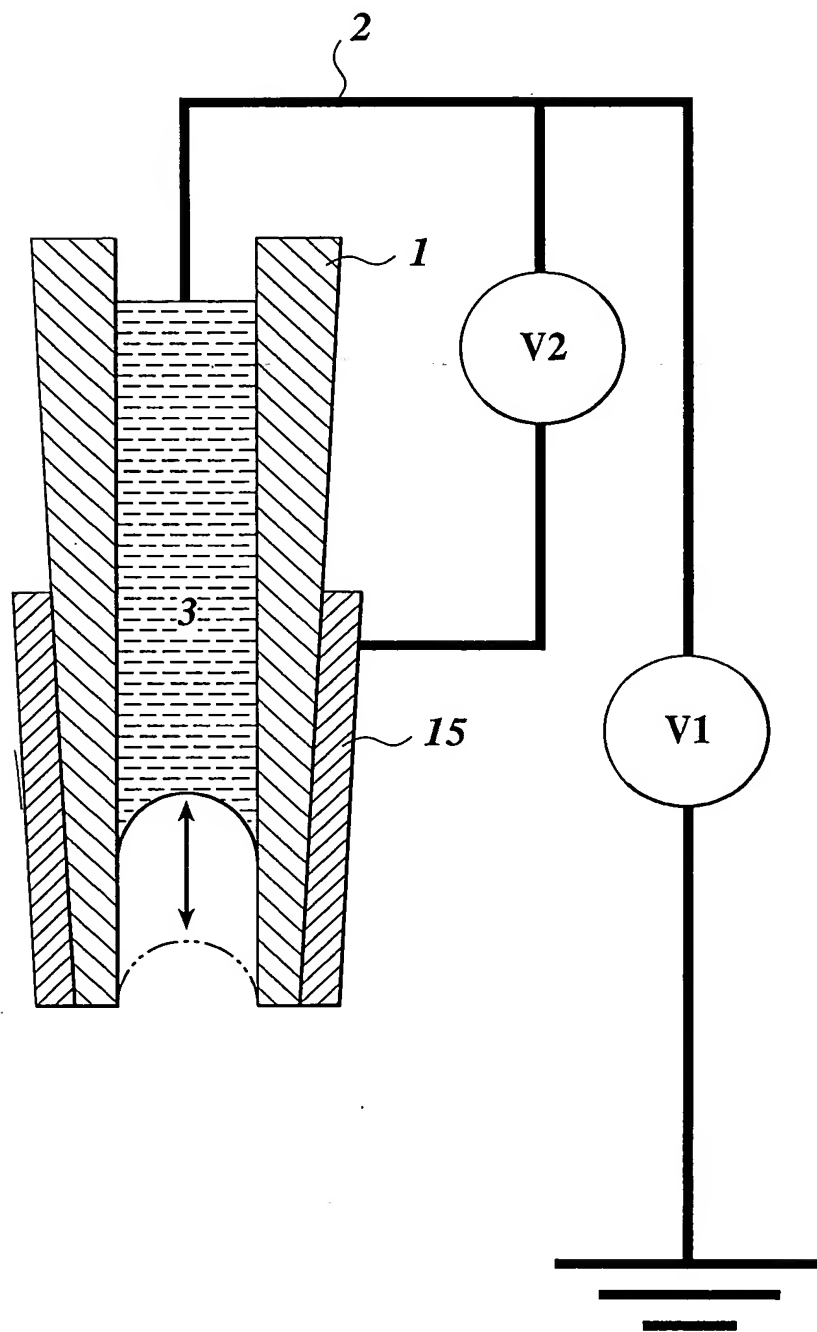
FIG.42

FIG.43

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FIG. 44

